

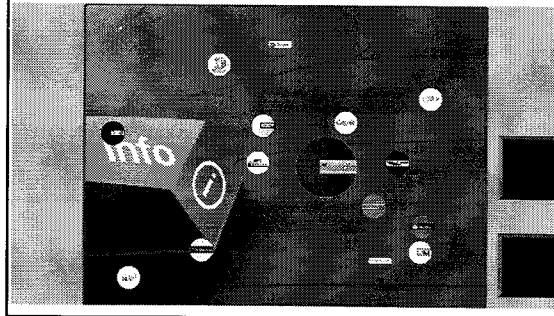
## How the Learning World Became Flat: Ten Knowledge Sharing and Technology Trends Equalizing Access to Learning



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



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



## 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

## 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."

**Poll #1: Should e-learning  
courses and material be shared?**

- Yes
- No
- Not sure



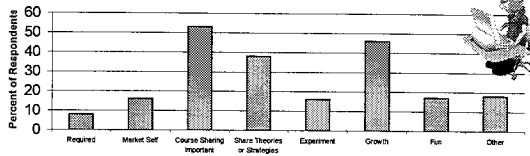
**Most are Scared to Share!!!**



## Why Share?

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

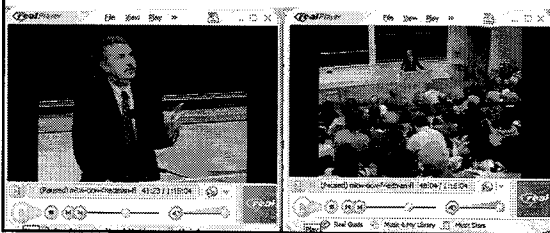
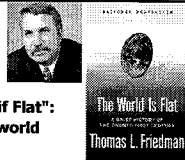
Figure 11. Reasons Why Respondents Posted to the WLH or MERLOT\*



## Do You Share?

1. Who has shared music in an iPod or MP3?
2. Who has used collab software? (Google Groups, Yahoo Groups, Sharepoint)
3. Who has used online phone services such as Skype or Google Talk?
4. Who has assigned teams online?
5. Who has embedded international exchanges or expert guests?
6. Who has used MERLOT, Connexions, or Jorum?

- Thomas Friedman, author of "The World is Flat":
- Tools for collaboration are changing the world
- <http://mitworld.mit.edu/video/266/>



## 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)

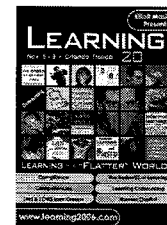
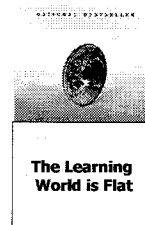


## Effects of interactive multimedia in distance learning

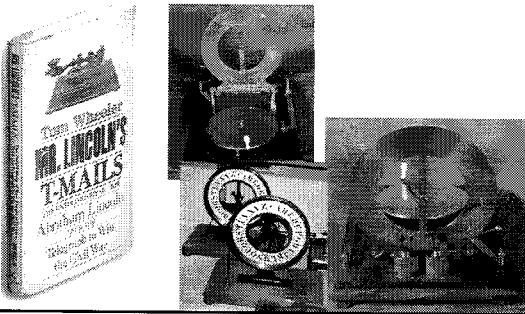
Giti Javidi and Ehsan Sheybani, 2004, In Proceedings of the IASTED International Conference WEB-BASED EDUCATION

"The advancement in technology is shaping every aspect of our life, including education. One decade ago, the Internet was not critical to education. However, now, it has become an integral part of learning process. Internet technology is having a dramatic effect on colleges and universities, producing what may be the most challenging period in the history of higher education."

## The Learning World has become Flat!



## Telegraph: Flattening the world in 1860



## How Lincoln won the Civil War *Mr. Lincoln's T-Mails: The Untold Story of How Abraham Lincoln Used the Telegraph to Win the Civil War*

by Tom Wheeler; Collins, 227 pages, \$24.95.

By Russ Juskalian, Special for USA TODAY

Updated 11/26/2006 5:29 PM ET

[http://www.usatoday.com/money/books/reviews/2006-11-26-lincoln-book\\_x.htm](http://www.usatoday.com/money/books/reviews/2006-11-26-lincoln-book_x.htm)

- Wheeler argues that the use of the telegraph by Lincoln and his Union generals may have provided the advantage necessary to win the war.
- The telegraph was a killer app for its use along rail lines, enabling more efficient scheduling of trains— which, in turn, increased traffic, and profits.
- With this breakthrough, telegraph lines exploded across the Northern parts of the USA. The Southern states, afraid that industrialization would change their way of life dramatically, moved far more slowly in establishing both railroads and telegraph lines.



**Blogging now begins young**

By Ashley Bleimes, USA TODAY, November 15, 2006, 12D). [http://www.usatoday.com/life/2006-11-14-blogs-education\\_x.htm](http://www.usatoday.com/life/2006-11-14-blogs-education_x.htm)

Eighth-grade students Tayler Bernholtz, left, Amy Lostronh and Kelsey Cardiff check out a weblog discussion related to the Civil War historical-fiction book 'Guerrilla Season' At South Valley Junior High School in Liberty, Mo. (Blogging now begins young USA Today, By Ashley Bleimes, USA TODAY, November 15, 2006, 12D). [http://www.usatoday.com/life/2006-11-14-blogs-education\\_x.htm](http://www.usatoday.com/life/2006-11-14-blogs-education_x.htm)

## The Ten Forces that Flattened the Learning World



1. Tools for Searching/Finding Media and Information Resources
2. Availability of Quality Online and Blended Learning Environments
3. Free and Open Source Software for Learning
4. Open CourseWare
5. Online Learning Object Repositories and Portals
6. Virtual Collaboration Software
7. Online Massive Gaming, Simulations, and Virtual Worlds
8. Learning Mobility and Portability
9. Personalized Learning Tools
10. Open Information Communities

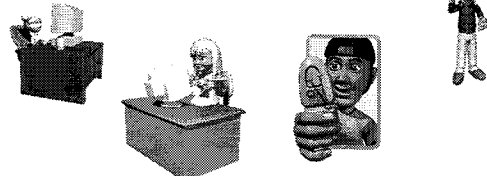
## Three Larger Trends

- The availability of tools and infrastructure for learning.
- The availability of free educational content and resources (OER—Open Educational Resources).
- A move towards a culture of open access to information, international collaboration, and global sharing.



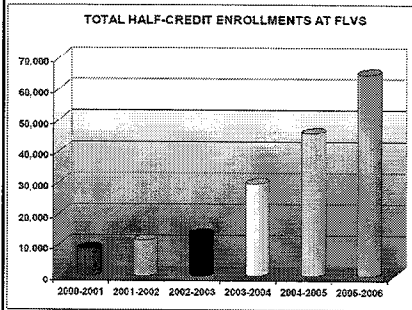
## The Ten Forces that Flattened the World

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

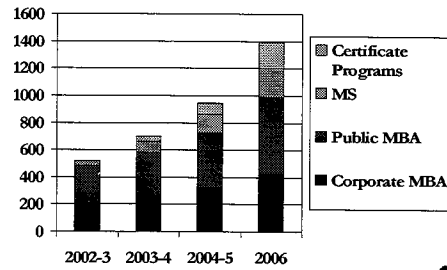




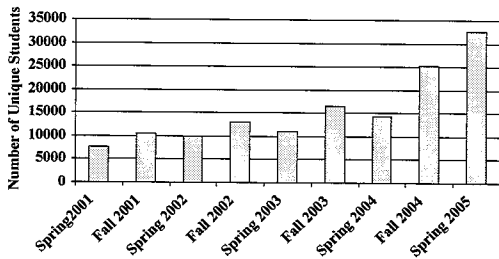
### Growth of Online Learning in Secondary Schools



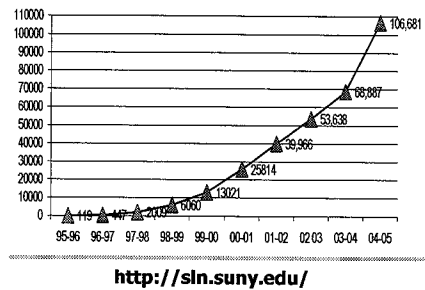
### Growth in Student Enrollments



### Enormous Learner Demand in Maryland WebCT@Maryland (March 2005)



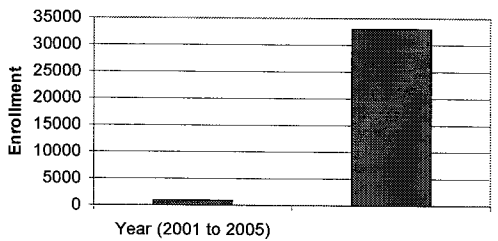
### SUNY Learning Network (SLN) Online course enrollments



<http://sln.suny.edu/>

### The OUM (Abtar Kaur, 2005, Ed Media)

#### Enrollment Growth at the UOM



### Chronicle of Higher Ed, January 5, 2007, Employers Often Distrust Online Degrees. By DAN CARNEVALE

**CHICAGO SUN-TIMES** January 5, 2007

**Employers Often Distrust Online Degrees.**  
By DAN CARNEVALE

WORLD: How often would employers trust an online degree with a traditional degree? 46% of employers distrust online degrees.

Survey: 46% of employers distrust online degrees. 46% of employers distrust online degrees.

In an online bachelor's degree are preferable to an online degree? 46% of employers distrust online degrees.

Not all students distrust online degrees.

By **SAM DILLON**, February 11, 2007  
**Troubles Grow for a University Built on Profits, NY Times**



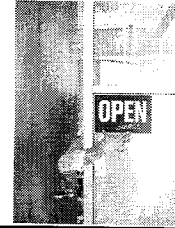
**President William J. Pepicello** says the university meets the needs of working students.



**Robert Wancha**, who is pursuing a bachelor's degree at the University of Phoenix, has criticized its standards.

## The Ten Forces that Flattened the World

### 3. Free and Open Source Software for Learning



## 1. eduCommons



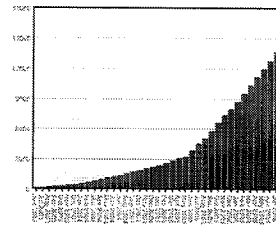
[View eduCommons in Action](#) | [Download the Source Code](#) | [Get the Installation Instructions](#)

eduCommons is an OpenCourseWare Management System designed specifically to support OpenCourseWare projects like MIT OCW and JPL OLCW. eduCommons provides the functionality necessary to successfully develop and manage an open access collection, including a workflow process that steps users through uploading materials into a repository, backing copyright clearance, transferring of materials into courses, a quality assurance process, and final publication of the materials. While the term and of "OpenCourseWare" is designed to usually go with other OCW's, the back end architecture is actually closer to something like Connexions - all resources are stored as individual learning objects in order to facilitate easy reuse downstream. eduCommons is open source software available from [SourceForge](#).

eduCommons is generously funded by [The William and Flora Hewlett Foundation](#) and the [National Science Foundation](#).

## Moodle sites

Total known sites



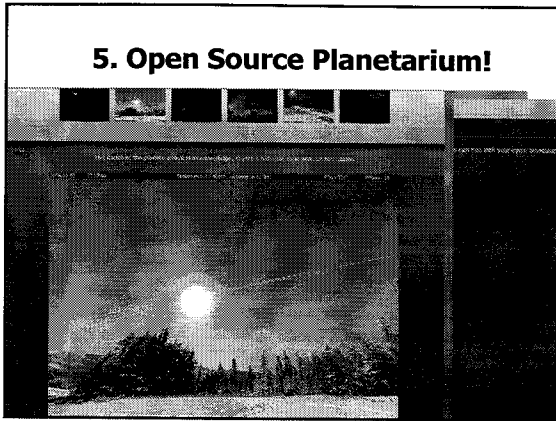
Moodle 1.5 sites: 10914 (of 14050)

Courses:	465218
Users:	5039211
Teachers:	879515
Enrolments:	7578325
Forum Posts:	5439185
Resources:	293706
Quiz questions:	3452107




## 3. Sakai Project

## 4. Learn from MIT



## The Ten Forces that Flattened the World



The Learning World is Flat

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

**Jan 4, 2007**  
**How to go to M.I.T. for free**  
**Online 'intellectual philanthropy' attracts students from every nation on earth.**

By Gregory M. Lamb, *The Christian Science Monitor*

- By the end of this year, the contents of all 1,800 courses taught at one of the world's most prestigious universities will be available online to anyone in the world, anywhere in the world. Learners won't have to register for the classes, and everyone is accepted. The cost? It's all free of charge.
- The OpenCourseWare movement, begun at the Massachusetts Institute of Technology (MIT) in 2002 and now spread to some 120 other universities worldwide, aims to disperse knowledge far beyond the ivy-clad walls of elite campuses to anyone who has an Internet connection and a desire to learn.

## Open Source Courseware

## Open University of UK

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

The screenshot shows the Johns Hopkins OpenCourseWare website. The main heading is 'JHSPH OPEN COURSEWARE'. Below it, there is a search bar and a navigation menu. The featured course is 'DBA.650.01 Family Planning Policies and Programs'. The course staff is listed as 'Instructor: Henry Weis' and 'Originally offered: Spring 2005'. There is a 'Feedback' section with a link to 'Send Feedback about OCW to the Course'. A small image of a woman and a child is visible on the left side of the course page.

### Tufts OpenCourseWare Project

The screenshot shows the Tufts OpenCourseWare website. The main heading is 'Tufts OpenCourseWare'. Below it, there is a search bar and a navigation menu. The featured course is 'IDP200 Pathophysiology of Infectious Diseases, Fall 2004/2005'. The course faculty is listed as 'Course Faculty: Susan Fleckley, Michael Burns, Sherwood Orbach, Linden Hu, Leah Kopelman, David D. Pridmore, John Reed, David Bryneman, Charles Torres, Matt Wilder'. The course length is '17 Hours' and the level is 'Level: 2nd Year'. A small image of a mosquito is visible on the right side of the course page.

### University of Notre Dame

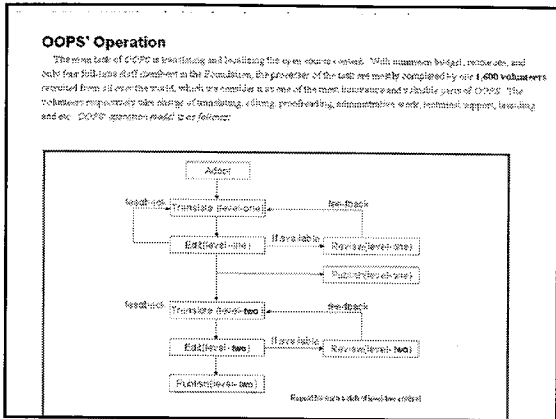
The screenshot shows the University of Notre Dame OpenCourseWare website. The main heading is 'UNIVERSITY OF NOTRE DAME OPEN COURSEWARE'. Below it, there is a search bar and a navigation menu. The featured course is 'AFall 20067 - Islamic Societies of the Middle East and North Africa: Religion, History and Culture'. The course is taught by 'Professor Anne Mousabeh'. A small image of a mosque is visible on the left side of the course page.

### Japan OCW Alliance

The screenshot shows the Japan OCW Alliance website. The main heading is 'KEIO OPEN COURSEWARE'. Below it, there is a search bar and a navigation menu. The featured course is 'Keio University'. The course is taught by 'Professor [Name]'. A small image of a building is visible on the left side of the course page.

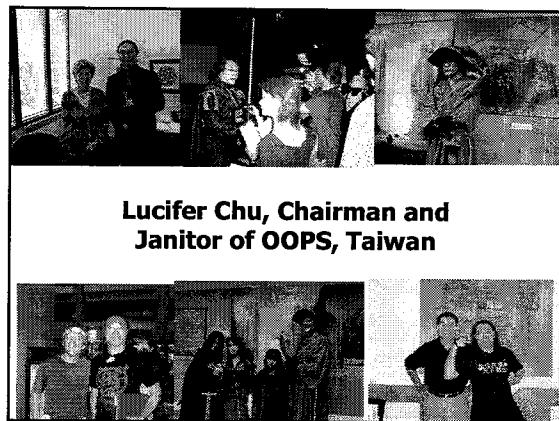
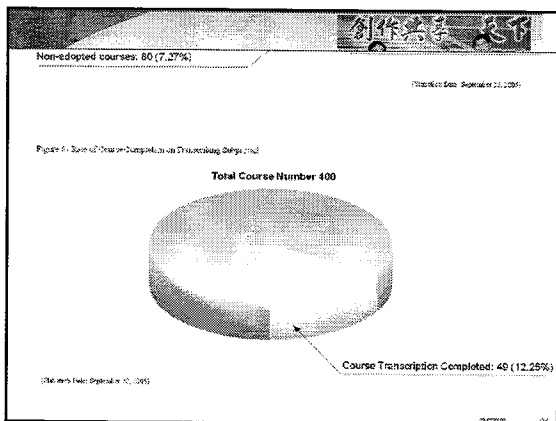






## What's their Beliefs? (Chu, Jan 1, 2007)

- Collective Minds is better than a single genius translator.
- Perfect Translation doesn't exist.
- 2,012 Volunteer translators  
1,125 courses adopted  
639 courses near completion  
(level 1)
- 126 courses already finished



## The Ten Forces that Flattened the World

### 5. Online Learning Object Repositories and Portals (shared content)


The Learning World is Flat

## Free Government Resources!

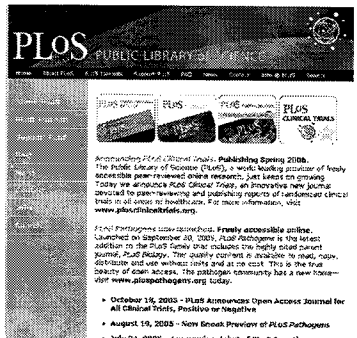
Public Resources in Educational Environment

**Utopia Univ of Texas**  
**Diverse library and museum collections,**  
**research, and Scholarly materials;**  
<http://utopia.utexas.edu/texas/>

- The University of Texas holds vast and diverse library and museum collections, research and scholarly materials, and many other knowledge assets. What if they could be leveraged among all the citizens of the state of Texas and beyond? This is the vision underlying UTOPIA, an expanding knowledge gateway to university resources, conceived in 2002 and launched in 2004, that continues to grow with the breadth and depth of UT's resources.



**Public Library of Science**




Announcing PLoS Clinical Trials, Publishing Spring 2008. The Public Library of Science (PLOS), a world leading publisher of freely accessible peer-reviewed online research, just launched the exciting Today we announce PLoS Clinical Trials, an innovative new journal devoted to peer-reviewing and publishing reports of randomized clinical trials in all areas of healthcare. For more information, visit [www.plosclinicaltrials.com](http://www.plosclinicaltrials.com).

PLOS Pathogens Live Science First. Freely accessible online. Launched on September 20, 2007, PLoS Pathogens is the latest addition to the PLoS family and includes the highly cited current journal, PLoS Pathology. The journal's content is available to read, copy, distribute and use without restrictions and at no cost. This is the true beauty of open access. The pathologic community has a new journal! [www.plospathogens.org](http://www.plospathogens.org) today.

- October 16, 2007 - PLoS Announces Open Access Journal for All Clinical Trials, Positive or Negative
- August 19, 2007 - New Growth Preview of PLoS Pathogens
- July 24, 2007 - Announcing debut of PLoS Genetics

**Museum of Online Museums**



BECOME A MEMBER BUY ONE GET ONE FREE STORE

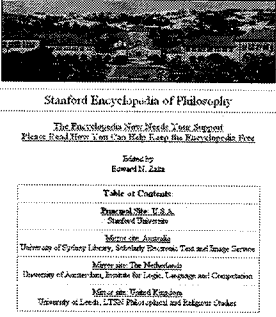
Laguna

California Art from the Permanent Collection:  
 Part I: The Pennington 1835-1925  
 July 21, 2007 - February 13, 2008

Calendar of Events

November 4, at 1:00 p.m.

**Stanford Encyclopedia of Philosophy**



Stanford Encyclopedia of Philosophy

The Encyclopedia Team Needs Your Support  
 Please Read How You Can Help Keep the Encyclopedia Free

Edited by  
 Edward N. Zalta


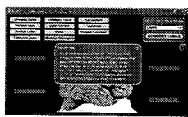

Table of Contents:

- Department: U.S.A. Stanford University
- Mirror site: Australia University of Sydney Library, Sydney Electronic Text and Image Centre
- Mirror site: The Netherlands University of Amsterdam, Institute for Logic, Language and Cognition
- Mirror site: United Kingdom University of Leeds, LTSN Philosophy and Education Centre

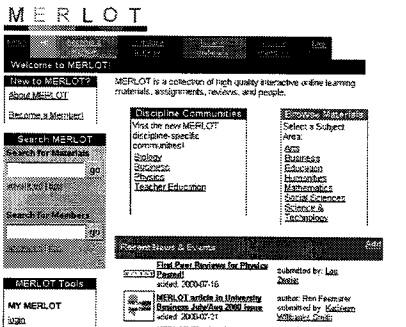
**Trend 5, Part 2:  
 Reusable Content Objects**

- "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*

**A. MERLOT**



MERLOT

Welcome to MERLOT!

Visit the new MERLOT! MERLOT is a collection of high quality interactive online learning materials, assignments, reviews, and people.

Discipline Communities

- Art
- Business
- Education
- Humanities
- Mathematics
- Science
- Science & Technology
- Teacher Education

Elaborate Materials

- Select a Subject Area
- AMS
- Business
- Education
- Humanities
- Mathematics
- Science
- Science & Technology

Search for Materials

Search for Members

MY MERLOT

Sign In

Submit a Review for Physics

Submitted by: Lisa Davis

scored: 100% (1/1)

MERLOT article in University Business July/Aug 2008 issue

scored: 100% (1/1)

MERLOT "Teacher Review"

submitted by: Mark

## MERLOT.org

MERLOT Engineering Portal

Welcome to the MERLOT Engineering Portal, an educational resource for teaching and learning. You are invited to [www.merlot.org](http://www.merlot.org) in any area - and use the learning materials, search your own materials for students, and get access to great ideas to help you teach better using any of the classroom.

For assistance, please contact the Editors of the MERLOT Engineering Editorial Board

**Design**

Design Engineering Portal is focused on the engineering education's understanding how to use their MERLOT materials in their classrooms. Here you will find information on:

- Design Engineering Portal
- Design Engineering Portal
- Design Engineering Portal

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- Design Engineering Portal
- Design Engineering Portal

### 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	Birthyear 2001	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

### B. Connexions (Rice University) <http://cnx.rice.edu/>

The screenshot shows the Connexions website interface with a search bar, navigation links, and a list of materials. The main content area displays a search result for 'Galileo's Telescope' with a thumbnail image and a brief description.

<http://cnx.rice.edu:8080/stats>  
 Sept 2005 had "14.4 million hits representing about 1 million page views by about 430,000 folks from 157 countries." growing at a rate of about 1 million hits per month.

The bar chart displays monthly statistics for hits and page views from September 2005 to September 2006. The x-axis represents months, and the y-axis represents the number of hits and page views. The data shows a steady increase in both metrics over the period.

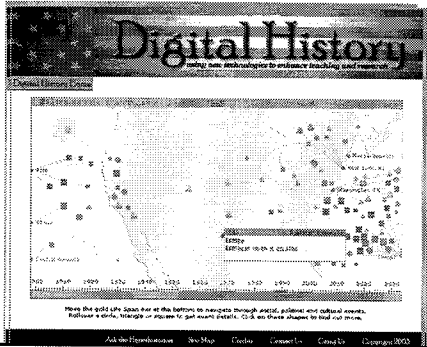
### Connections Growth

**>3500 modules (3-5 pages)**  
**>180 courses (October 2006)**  
*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**

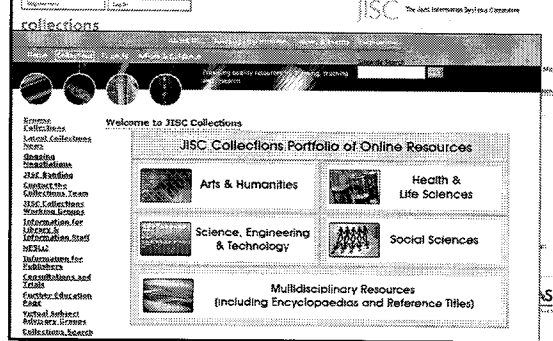
The stylized bar chart shows the growth in hits, page views, and unique users from September 2006. The bars are arranged in a staircase pattern, indicating exponential growth.

**Usage September 2006**  
**17 million hits**  
**1.2m page views**  
**520k unique users from 157 countries**

### C. Textbook Revolution



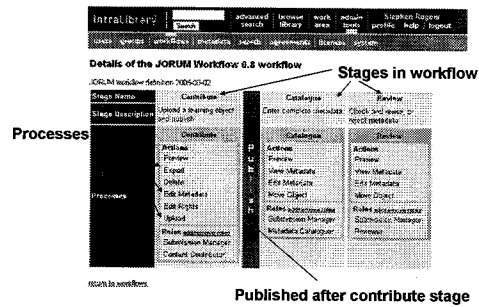
### D. JORUM (from UK)



### 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.”**

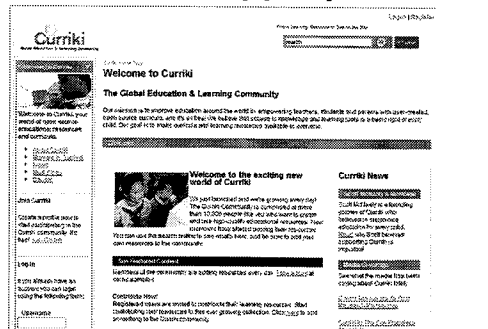
### Jurom Workflow



### E. Global Education and Learning Community (GELC) Technology in the Developing World (Kirkpatrick, Dec 22, 2006, CNN Money)

- The Global Education and Learning Community (GELC) aims to bring the principles of open source to education. Scott McNealy, former CEO of Sun Microsystems, is working to create a free universal curriculum from Kindergarten to 12<sup>th</sup> grade in every major subject. Any educator/researcher can contribute and it will be in any language.**

### E. Global Education and Learning Community (GELC)



**F. Google Free Stuff**  
**Education 2.0: Web-based services and other open technology alternatives is changing the nature of school software.**

- Hoping to lure teachers and students, thus capturing the attention of a whole new generation of users, Google--the world's largest internet company--this year launched an online portal for educators, complete with lesson plans and other resources designed to help educators use the company's free online tools (such as Google Docs and Spreadsheets, an open alternative to Microsoft's Word and Excel) in their classes. The site also contains resources for using Google Maps in education, and Google last month ran an online project encouraging students from around the globe to brainstorm ways to slow or stop global warming--using the company's software to collaborate.**

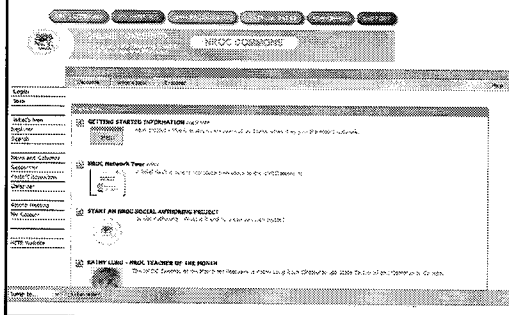


**F. Google School Resources**

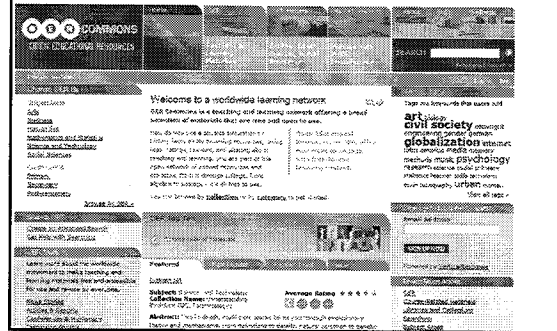
**Google enrolls teachers in online software crusade**

**Dec 3, 2006, USA Today**  
**Michael Liedtke, Associated Press**  
**Google enrolls teachers to spread work online software crusade**  
**Palo Alto High School journalism teacher Esther Wojcicki helps student Allison Wyndham at a computer during journalism class in Palo Alto, Calif. Wojcicki is helping Google bring its online suite of software applications to classrooms across the country**

**G. National Repository for Online Courses (NROC) Commons**

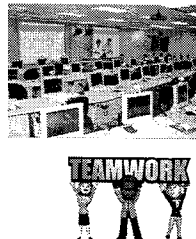


**H. National Repository for Online Courses (NROC) Commons**

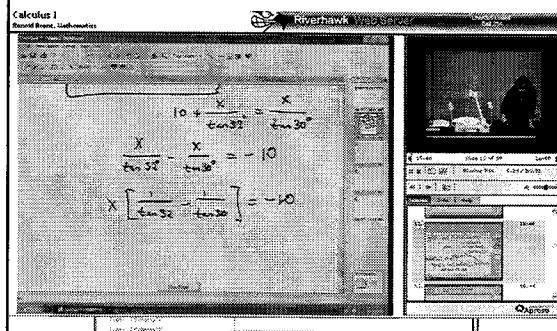


**The Ten Forces that Flattened the World**

**6. Virtual Collaboration Software (async and sync)**



**Webcast Lectures (slides synched)**



## Online Groups...

**Yahoo! Groups**

The easiest way for groups to publish to communities on the Internet

- Stay in touch with friends, family and colleagues
- Discuss sports, health, news, and more
- Connect with people who share your interests

To view My Groups... you need a Yahoo! ID

Don't have a Yahoo! ID? Signing up is easy.

Sign up for Yahoo!

Already have a Yahoo! ID? Sign in.

Yahoo! ID:

Password:

Remember my ID on this computer

Sign In

Forgot your ID or password? [Sign up for a new ID](#)

**Find a Group**

Search

Knowingly. By filtering, narrowing & using keyword alerts.

Education & Finance	Computers & Internet
Culture & Community	Entertainment & Arts
Family & Home	Games
Government & Politics	Health & Wellness
Hobbies & Crafts	Music
Games & Sports	Religion

## Skype says it is used by 136 million people worldwide

**Skype users to get lie detectors**

Callers using Internet phone systems Skype who might be tempted to lie in few places should beware - the operator. One other and may have a lie detector.

Skype is to offer the Kitebird lie detector, which is made by Kitebird, an AI software for companies.

It analyzes audio to eaves drop a Skype call in real time and analyzes the stress levels of the other person.

Skype software lets computer users talk to each other for free and make cheap calls to mobiles and landlines.

"Greatly enhanced"

Paul Avery, director of Skype developer programs said: "This is a really excellent application, and the kind of creativity we're looking for."

The detector is the latest in a variety of products in use by Skype which greatly enhance the Skype communication experience.

Skype's proposed software has the Skype been released from the web changed because of the Skype users to be used? The Skype app is now ready for use. Your users of the Skype app will be able to use the Skype app. Skype users to be used.

## The Ten Forces that Flattened the World

### 7. Online Massive Gaming, Simulations, and Virtual Worlds

The Learning World is Flat

## Trend #3: Virtual Worlds/Virtual Reality/MMOG

By Daniel Terdiman, CNET News.com  
October 18, 2006, 4:00 AM PDT

When Linden Lab CEO Philip Rosedale (right) spoke to CNET News.com reporter Daniel Terdiman at CNET's "Second Life" headquarters this week, the auditorium was filled with almost all the visitors it could handle.

## The Ten Forces that Flattened the World

### 8. Learning Mobility and Portability (low cost wireless devices)

**Audacity**

The Free, Cross-Platform Sound Editor

Audacity is the only music software for Windows, Mac OS X, Linux, and Solaris. It is a free and open source software project.

Download Audacity 1.2.2

Learn more about Audacity

## \$100 Laptop

**SCITECH**  
Features

A revolution in a laptop  
By Greg Norman

After an announcement that 25 years ago when Chester Program and Mungo Thelander were in their prime, the \$100 laptop, available at \$100, entered the age of the modern PC.

A member of a century on the laptop is the PC is obsolete.

Changes  
Look up  
VNC

**Negroponte says the new laptop is designed to be kid-friendly**

**OLPC aims to turn the tide of urban poverty**

**The CM1: Taking technology to the developing world  
A revolution in a laptop  
By Greg Norman  
Sunday 13 August 2006, 18:49  
Makka Time, 15:49 GMT**

## Computers for Peace By Grace Rubenstein GLEF

Fold-up antennas let OLPC laptops link with others up to 1/2 of a mile away and share an internet connection.

Screen swivels, closes, or lies flat for use as tablet, e-book, or game machine.

Using a Wi-Fi connection, groups of children can do activities together, such as share photos or compose and perform music.

Super high-definition, 7.5 in. diagonal screen is easily visible in daylight, designed for outdoor use.

Uses 2 watts of power (1/10th average laptop); manually rechargeable.

Rugged keyboard resists dust and dirt and will be configured for the local language.

## Computers for Peace By Grace Rubenstein GLEF

- Drop a laptop computer into the hands of a child in a remote Chinese village, and Nicholas Negroponte predicts a cascade of results will unfold: The child will encounter new knowledge and ways to express herself through images, words, and sounds. She may help her parents find markets for their products in other cities via cheap satellite Internet -- or even develop a business plan herself. One family's growing prosperity will lift the village's fortunes and expand opportunities for their neighbors.

## Wireless Technology

### MOST (UN)WIRED SCHOOLS?

CNET and U.S. News and World Report got the top 50 universities' tech specs and asked them which computers they recommend to students and faculty.

[CLICK HERE TO VIEW](#)

## DePauw University

## Chronicle of Higher Education February 9, 2007

USE THE APPROPRIATE FORM TO REGISTER YOUR INTEREST IN THIS OFFER.

NONPROFIT ORGANIZATION

NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP: \_\_\_\_\_


PHONE: \_\_\_\_\_

EMAIL: \_\_\_\_\_



# The Ten Forces that Flattened the World

## 9. Personalized Learning Tools (Blogs, Podcasts, MySpace, Flickr, RSS, etc.)



The Learning World is Flat

# Podcasting

## Podcasts I have listened to supposedly



Three hours  
Podcast Summary  
About the Government

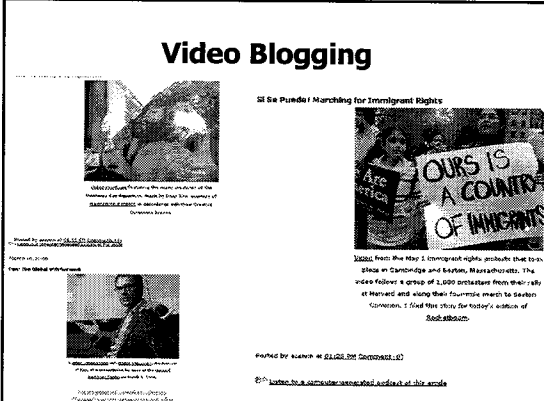
# Technorati and Google Blog



As blogging becomes more pervasive, schools have begun establishing ground rules for teachers who blog.

TECHNORATI.COM, THE GOOGLE OF THE BLOGOSPHERE IS NOW TRACKING more than 10 million bloggers, with 40 billion links between them, and a social relationship ranging from a handful of devices to thousands.

# Video Blogging



Billie Ponder: Marching for Immigrant Rights

Billie Ponder is the main organizer of the National Day of Mourning, held in the shadow of the Lincoln Memorial in Washington, D.C. on September 16, 2006.

# Online Photos, e.g., FLICKR



TIME 100: The People Who Shape Our World

The creators of the website Flickr, Caterina Fake and Stewart Butterfield

The Flickr Founders

From the magazine's Readers & Writers

# Social Networking Software

- Classmates: <http://www.classmates.com/>
- Facebook: <http://www.facebook.com/>
- Friendster: <http://www.friendster.com/>
- Friendzy: <http://www.friendzy.com/>
- MySpace: <http://www.myspace.com/>
- Orkut: <http://www.orkut.com/>
- Tribes: <http://www.tribe.net/>
- YouTube: <http://www.youtube.com/>

## Social Networking Software (Web 2.0)

Navigation menu: Home, Profile, Friends, Groups, Messages, News, Settings, Privacy, Help, Log Out.

Profile information: Name, Location, About, Friends, Photos, Videos, Music, Links, Recent Activity.

Post content: A photo of a large building with columns and a fountain in front.

Comments: "This is the best I've ever seen. Thanks a lot!"

Advertisements: "50% off on unlimited calls to any phone in the U.S. \$4.99" and "New! 100% off on..."

## The Ten Forces that Flattened the World

### 10. Open Information Communities (e.g., Wikipedia, YouTube)

The Learning World is Flat

## What are the most popular videos... THIS WEEK?

### World Cup 2006 Spain vs Saudi Arabia 1-0

Video player controls: Play, Pause, Stop, Full Screen, Volume, Progress bar.

Video details: Uploaded June 29, 2006, 11:00 AM, 11,000 views, 100% upvotes.

Channel: World Cup 2006

Related videos: World Cup 2006 Spain vs Saudi Arabia 1-0, World Cup 2006 Spain vs Saudi Arabia 1-0, World Cup 2006 Spain vs Saudi Arabia 1-0.

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

### WIKIPEDIA

English The Free Encyclopedia 204,000 articles	Deutsch Die freie Enzyklopädie 200,000 Artikel
Français L'encyclopédie libre 15,000 articles	日本語 フリー百科事典 1,000 記事
Svenska Den fria encyklopedin 10,000 artiklar	Nederlands De vrije encyclopedie 10,000 artikelen
Polski Wolna Encyklopedia 11,000 artykuły	Italiano L'Enciclopedia Libera 10,000 articoli
Português A enciclopédia livre 10,000 artigos	Español La enciclopedia libre 11,000 artículos

Search:

## Sample Book (Learning Theories)

[http://en.wikibooks.org/wiki/Main\\_Page](http://en.wikibooks.org/wiki/Main_Page)

### European History

From 1250 to the present

This Wikibook is a work of the Wikibooks community.

#### A Survey of Modern European History

This project is an attempt at writing a survey of modern European history. It is intended to be a starting point for those who are interested in the history of Europe. It is not intended to be a comprehensive history of Europe, but rather a survey of the major events and figures of the period.

Contents >>>

## Sample Junior Book (Dinosaurs)

[http://en.wikibooks.org/wiki/Main\\_Page](http://en.wikibooks.org/wiki/Main_Page)

### Image:Saurier.jpg

Image details: Saurier.jpg, 1000x1000 pixels, 100 KB.

Image description: A large dinosaur skeleton, possibly a Tyrannosaurus Rex, displayed in a museum setting.



## Open Source and Open Educational Resources Conferences





**OSCON 2006: Opening Innovation**  
 JULY 24-26, 2006 PORTLAND, OREGON

Register Now

**OSCON 2006: Opening Innovation**  
 In the decade since the first Open Source Conference, OSCON has been a place for open source practitioners to gather together and gain inspiration. It's also become a place for open source software to flourish. The open source movement has been a major force in the software industry, helping to bridge the gap between what's possible with open source and what's possible with closed source. Through hundreds of open source projects, OSCON 2006 will be a place to celebrate the success of the open source community and the "openness" of the open source industry.

Now at OSCON 2006, you'll see the latest in open source software, the latest and greatest in open source hardware, and the latest in open source services. You'll also see the latest in open source business models, and the latest in open source education. OSCON 2006 will be a place to see the latest in open source, and the latest in open source education. OSCON 2006 will be a place to see the latest in open source, and the latest in open source education.

**Featured Speakers Include:**

 David Foray Open Source Software Foundation	 Ericnie Smith Linux Software Foundation	 Richard Stallman Free Software Foundation	 Michael Stroh Open Source Software Foundation
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**Also Speaking at OSCON:**  
 Andy Star  
University  
of  
Maryland  
System  
College  
Maryland  
System  
College  
Maryland  
System  
College

**Sponsors:**  
 Autodesk  
 SpringSource  
 Sun  
 HP

### Comparison of Sharing Sites: MERLOT, Connexions, CAREO, OCW, 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, OCW, 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 collaborations are possible between corporate world and OOPS, OCW, MERLOT, etc.?

### Poll #2: So who is still too scared to share???

**Quote Continued...**

**A Final Quote:**

It's a long, long road...  
With many a winding turn.  
That leads us to who knows where?...



It's a long, long road  
From which there is no return  
While we're on the way to there  
Why not share



(The Hollies, 1969; He Ain't Heavy,  
He's My Brother; B. Scott - B. Russell)



**Computers for Peace; By Grace  
Rubenstein; GLEF, Interview with  
Nicholas Negroponte, MIT**

- In an ideal world, what is your single greatest hope for this project?
- A three-step hope: World peace *through* the elimination of poverty *through* education *through* learning. Education is the goal; learning is the means. A lot of learning can happen without teaching. We're banking on that.



**The Learning is Flat!  
The End!!!**

