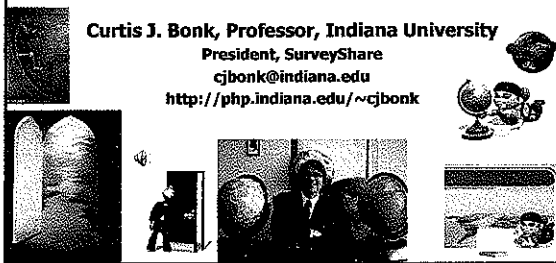



## Learning World Is Open: How Web Technology is Revolutionizing Education

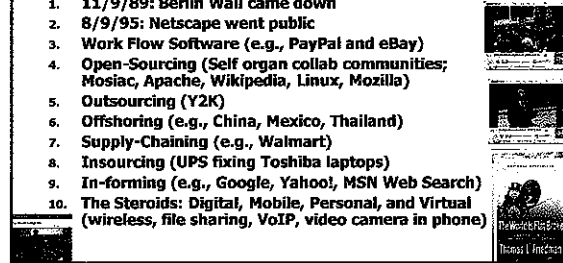
**Curtis J. Bonk, Professor, Indiana University**  
President, SurveyShare  
cjbonk@indiana.edu  
<http://php.indiana.edu/~cjbonk>

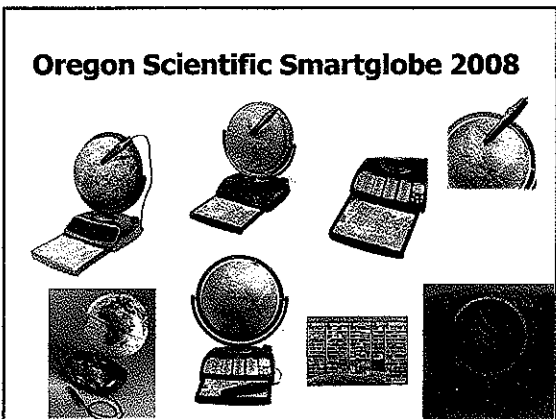
## The Ten Forces that Flattened the World

**Triple Convergence: (1) new economic players, (2) playing fields, and (3) processes.**

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 organ collob communities; Mosiac, Apache, Wikipedia, Linux, Mozilla)
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 (wireless, file sharing, VoIP, video camera in phone)




## Oregon Scientific Smartglobe 2008



### UCLA blogs to offer front-row seat at archaeology digs

By Meg Sullivan, 6/25/2008  
<http://newsroom.ucla.edu/portal/ucla/dig-in-archaeology-fans-52202.aspx>



**Michael Perham and Zac Sunderland (each age 17,; youngest person to sail solo around the world..and blog on it, use Skype, YouTube, take videos, post pictures)**

**MICHAEL'S ROUTE**

July 8, 2009 Panama Canal  
 April 9, 2009 Tasmania, British isles

**THURSDAY, JUNE 11, 2009**

**Another Sleepless Night**

**Position: 06/11/09 1719Z 15 20.858N 97 04.512W**

I managed to get everything sorted out in Huatulco and was out of the marina by about 1:00 in the afternoon. I weaved my way out of the tricky entrance by following my old track on the chart plotter. When I got out of the harbor I got slammed by 15 knots on the nose once again keeping me from where I wanted to go.

I tacked out to sea and picked out some way points to route me around the maze of sea mounts about 8 miles offshore. After a couple of hours of sailing along, my radar started to pick up a huge patch of squalls about 10 miles off of my bow. I went into the cockpit to take a look and the whole horizon was blackened by the approaching squalls and the lightning was lighting up the sky.

**ALLIS-CHALMERS**

**ALLIS-CHALMERS**

**Charles Wedemeyer**

**Learning at the Back Door (1981)**

**Nontraditional Learning**

**WE-ALL-LEARN:**

**Ten Forces that Opened the Learning World**

- Web Searching in the World of e-Books (i.e., Darwin)
- E-Learning and Blended Learning
- Availability of Open Source and Free Software (e.g., Moodle)
- Leveraged Resources and OpenCourseWare (e.g., MIT)
- Learning Object Repositories and Portals (i.e., shared content)
- Learner Participation in Open Info Communities (YouTube)
- Electronic Collaboration and Interaction (sync and async)
- Alternate Reality Learning (Online Massive Gaming, Simulations, and Virtual Worlds; e.g., Second Life)
- Real-Time Mobility and Portability (e.g., iPhone)
- Networks of Personalized Learning (Blogs, RSS)



**World is Open**

# Audience Participation!

**1. WE**




**2. ALL**

**3. LEARN!!!**

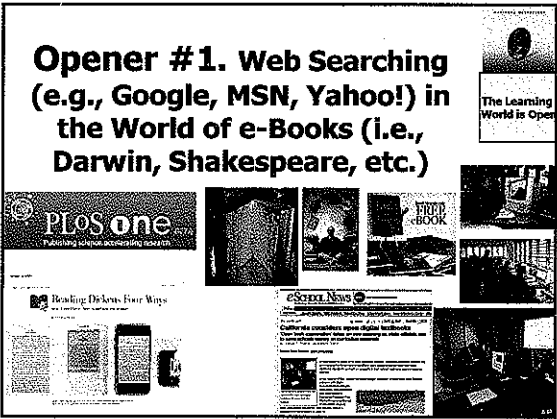



## Triple Learning Technology Convergence of "WE-ALL-LEARN"

- 1. Pipes:** The availability of tools and infrastructure for learning.
- 2. Pages:** The availability of free educational content and resources (OER—Open Educational Resources).
- 3. Participatory Learning Culture:** A move towards a culture of open access to information, international collaboration, and global sharing.

## Opener #1. Web Searching (e.g., Google, MSN, Yahoo!) in the World of e-Books (i.e., Darwin, Shakespeare, etc.)





## Trend #1. Web Searching in the World of e-Books. What happens then?

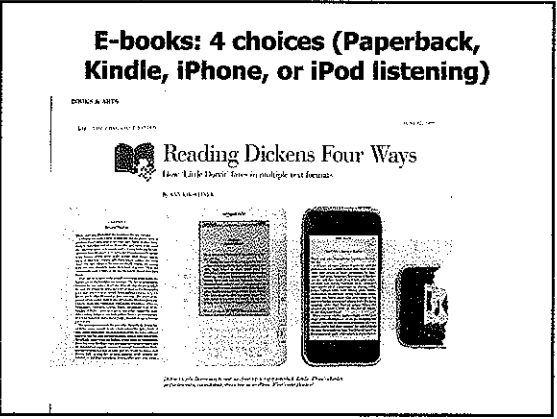
**WE**

**ALL**

**LEARN!!!**

## E-books: 4 choices (Paperback, Kindle, iPhone, or iPod listening)

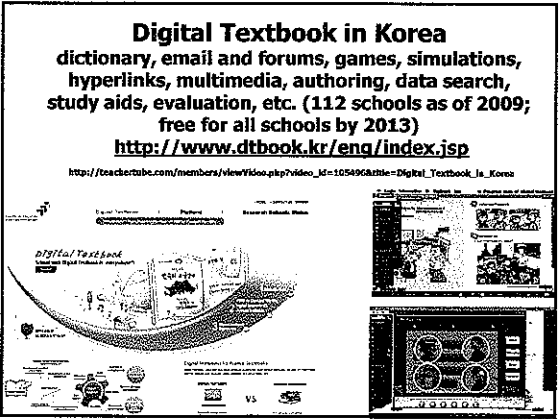


## Digital Textbook in Korea

dictionary, email and forums, games, simulations, hyperlinks, multimedia, authoring, data search, study aids, evaluation, etc. (112 schools as of 2009; free for all schools by 2013)

<http://www.dtbook.kr/eng/index.jsp>

[http://teacher2000.com/members/viewVideo.php?video\\_id=1025490&title=Digital\\_Textbook\\_in\\_Korea](http://teacher2000.com/members/viewVideo.php?video_id=1025490&title=Digital_Textbook_in_Korea)



**eSCHOOL NEWS** NO FEE/NO REQUIRED

Home | News | Features | Resources | Events | Archives | About Us | Contact Us | Privacy Policy

California considers open digital textbooks

Open book examination takes on new meaning as state officials aim to save schools money on curriculum materials

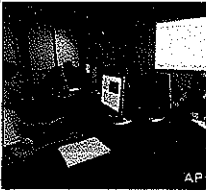
By *Kyle T. Priddy* *Assistant Editor*

News | Tech Channel | 06/23/2009 10:58 AM

IN AN AGE OF A BLOT OF E-READERS, OPEN DIGITAL TEXTBOOKS ARE BEING OFFERED TO COMPETE WITH THE MORE TRADITIONAL PRINT BOOKS. CALIFORNIA IS THE FIRST STATE TO OFFER OPEN DIGITAL TEXTBOOKS FOR USE IN MATH AND SCIENCE. THE STATE IS THE FIRST TO OFFER OPEN DIGITAL TEXTBOOKS FOR USE IN MATH AND SCIENCE.

At the request of Gov. Arnold Schwarzenegger, Secretary of Education Gavin Thomas, and State Board of Education President Dan Marshall, the state is the first to offer open digital textbooks for use in math and science.

Open digital textbooks: The primary objective is to save schools money on curriculum materials.

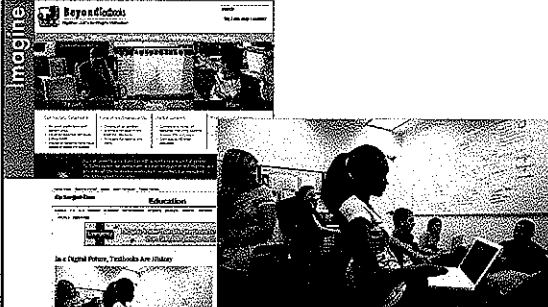


**California works to become the first state to offer free, open digital textbooks for use in math and science. Thu, May 21, 2009, eSchool News**

In a Digital Future, Textbooks Are History, NY Times, August 9, 2009  
[http://www.nytimes.com/2009/08/09/education/09textbook.html?\\_r=1&emc=eta1;http://beyondtextbooks.org/](http://www.nytimes.com/2009/08/09/education/09textbook.html?_r=1&emc=eta1;http://beyondtextbooks.org/)

**Beyond Textbooks**

Imagine



**In a Digital Future, Textbooks Are History**

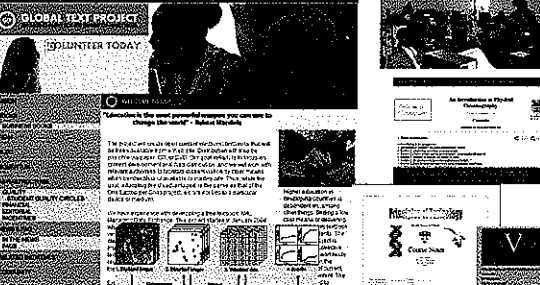
**Global Text Project (free textbooks for those in less developed countries)**  
<http://globaltext.org/>

**GLOBAL TEXT PROJECT**

WINTER TODAY

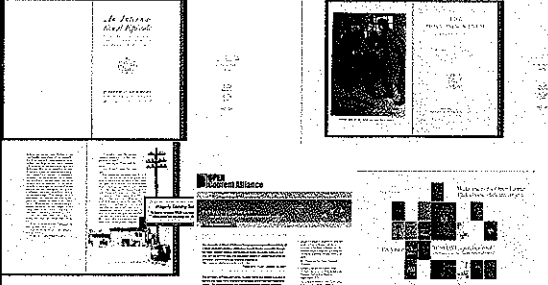
WELCOME TO THE MOST POWERFUL resource you can use to change the world! - Robert Simmons

The Global Text Project is a non-profit organization that provides free textbooks to students in less developed countries. The project is a collaboration of educators and students from around the world who have created a vast library of free textbooks for use in less developed countries.



**Read, Listen, etc. to online books (e.g., "An International Episode" by Henry James)**

*An International Episode* by Henry James




**Free Online Books**  
 (Terry Anderson and Fathi Elkoumi, eds. *Theory and Practice of Online Learning*; Canada: Athabasca University, 2004),  
[http://cde.athabascau.ca/online\\_book/](http://cde.athabascau.ca/online_book/), 55,000 downloads in first year)

**Theory and Practice of Online Learning**

OPENING UP EDUCATION

UNLOCKING KNOWLEDGE



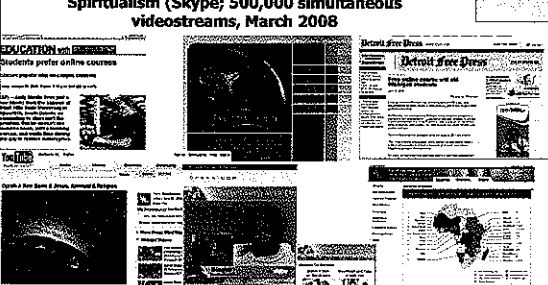
**Opener #2. E-Learning and Blended Learning**  
 2 Million People Sign up for Part I of Oprah's Course on Spiritualism (Skype; 500,000 simultaneous videostreams, March 2008)

**EDUCATION with ENTHUSIASM**

Students prefer online courses

**Detroit Free Press**

The Learning World is Open



## Trend #2. E-Learning and Blended Learning. What happens then?

WE  
ALL  
LEARN!!!




### Learning in the 21<sup>st</sup> Century: 2009 Trends Update (K-12/Project Tomorrow)

[http://www.blackboard.com/resources/k12/09\\_K12\\_09\\_TrendsUpdate.pdf](http://www.blackboard.com/resources/k12/09_K12_09_TrendsUpdate.pdf)

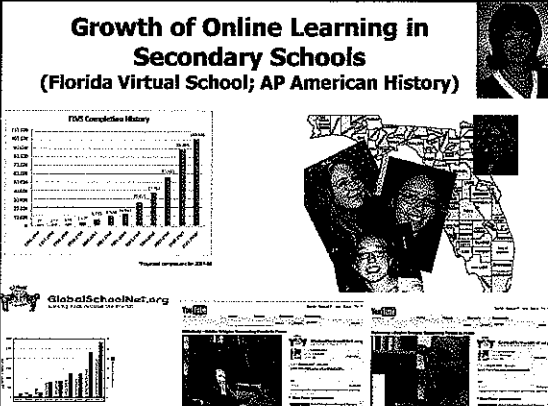
Figure 1: Students Speak Up about Reasons for Taking Online Classes.

Reason	Percentage
Can take classes at my own pace	45%
Can take classes at my own time	35%
Can take classes at my own place	25%
Can take classes at my own level	15%
Can take classes at my own cost	10%
Can take classes at my own location	5%
Can take classes at my own time	5%

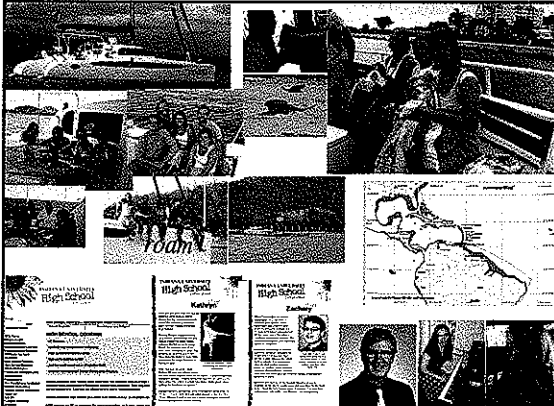
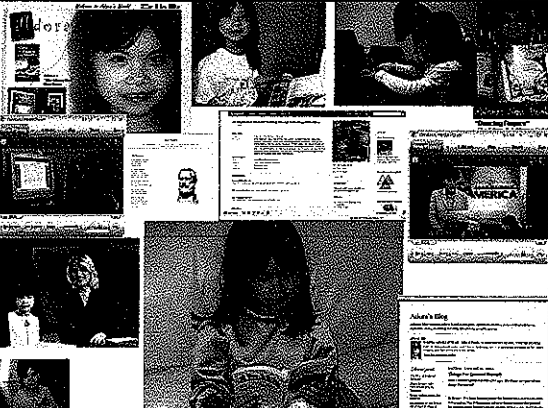
Figure 2: Teachers Speak Up about how Online Classes Improve their Effectiveness as a Teacher.

Improvement	Percentage
Changed student to be more self-directed	45%
Improved student's overall learning	35%
Increased student's self-confidence	25%
Improved student's understanding of how to learn	15%
Improved student's understanding of how to use technology	10%
Improved student's understanding of how to work with others	5%

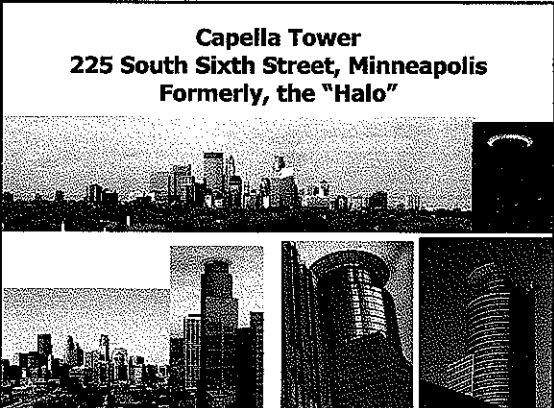
### Growth of Online Learning in Secondary Schools (Florida Virtual School; AP American History)



GlobalSchoolNet.org

### Capella Tower 225 South Sixth Street, Minneapolis Formerly, the "Halo"



### Total and Online Enrollment in Postsecondary Institutions Fall 2002 through Fall 2006

(in Degree-Seeking Students)

	Total Enrollment	Annual Growth Rate Total Enrollment	Students Taking at Least One Online Course	Annual Growth Rate Online Enrollment	Online Enrollment as Percent of Total Enrollment
Fall 2002	15,611,710	NA	1,302,970	NA	8.3%
Fall 2003	16,900,478	7.9%	1,371,387	23.0%	11.7%
Fall 2004	17,272,043	2.2%	2,203,783	16.2%	12.6%
Fall 2005	17,428,500	0.9%	3,193,050	26.3%	18.2%
Fall 2006	17,667,720	1.3%	3,455,281	8.7%	19.5%

SOURCE: Online Higher Education Five Years of Growth in Online Learning (October 2007)

#### UIS Online & Blended Enrollment

### Free and Open Courses

(Tom Reeves Evaluation Course at Georgia; David Wiley's Web 2.0 courses at BYU; Connectivism from George Siemens and Stephen Downes, 24 enrolled, 2,000+ sitting in)

**FREE 6300 - Instructional Design Evaluation**

... evaluation results were added comparing to the interests and ideologies of stakeholders, stakeholders usually requested scientific input as minor in decision making, and problem solving in far from a rational endeavor." - Shalun, Cook, & Levin, 1991

"Evaluation is what elaborates advantage from activity, good explanations from fact ones, good experimental designs - or bridge designs - from interior ones, good scientific, engineering and technological from pure-of-the-earth ones." - Schwab, 1993

**Co-instructor:**  
Thomas C. Reeves, Ph.D., Director, Center for Learning Innovation, Georgia Institute of Technology

**Co-instructor:**  
George Co. Hill, Director, Center for Learning Innovation, Brigham Young University

**Co-instructor:**  
George Siemens, Director, Center for Learning Innovation, University of British Columbia

**Co-instructor:**  
Stephen Downes, Director, Center for Learning Innovation, University of British Columbia

### A Grain of Rice: A Bloomington man's computer vocab game feeding the world

Herald Times, Wednesday February 6, 2008, Mike Leonard

**A GRAIN OF RICE**

### Opener #3. Availability of Open Source and Free Software (e.g., Linux, Apache, Moodle, Sakai)

The Learning World is Open

**INFORMATION TECHNOLOGY**

Crises From Blackboard Will Pay the Debt in Angel Learning

Blackboard

### Trend #3. Availability of Open Source and Free Software. What happens then?

**WE ALL LEARN!!!**

### Moodle (620,000 registered users in 204 countries speaking 78 languages, 2/10/2009)

**moodle**

Moodle sites: Total known sites

Moodle downloads

## Opener #4. Leveraged Resources and OpenCourseWare (OCW) (e.g., free courses from MIT, Utah State, CORE, OOPS)

The Learning World is Open

Thousands of video lectures from the world's top scholars.

## Open Educational Resources (OER) Post Courses in YouTube and iTunes (e.g., Berkeley)

## OpenCourseWare (OCW) Cute Kitten or Transformation? (per George Siemens)

MITOPENCOURSEWARE MASSACHUSETTS INSTITUTE OF TECHNOLOGY

OPEN EDUCATION free education for all

Open Yale

Open Universiteit Nederland

OPENCOURSEWARE CONSORTIUM

## Wendy Ermold, University of Washington, scientific programmer and field technician for the Polar Science Center since 1998; with Mike Steele in the study of Arctic Circulation, and the mechanisms controlling it.

## MIT OpenCourseWare: Highlights for High School

Highlights for High School

MIT OpenCourseWare materials that are most useful for high school students and teachers.

## Opensource Opencourseware Prototype System (OOPS) funded by, the Foundation of Fantasy, Lucifer Chu, Chairman and Janitor of OOPS, Taipei)

The Biggest OCW Localization Volunteer Group in the World

OOPS: Opencourseware Prototype System The Foundation of Fantasy Culture and Arts

OOPS 開放式課程計劃

### Sample OpenCourseWare Projects (Tufts, Johns Hopkins, IIT)

This collage displays several OpenCourseWare (OCW) project pages. On the left, there are screenshots of the Tufts OpenCourseWare website, showing course listings and search functions. In the center and right, there are pages from Johns Hopkins University and IIT, featuring course descriptions, video thumbnails, and navigation menus. The pages are arranged in a grid-like fashion, showcasing the diverse content available on these platforms.

### National Repository for Online Courses (NROC) Commons

The screenshot shows the NROC Commons website, which serves as a national repository for online courses. The page features a header with the NROC logo and navigation links. Below the header, there is a main content area with a welcome message and several featured course listings. Each listing includes a course title, a brief description, and a thumbnail image. The layout is clean and organized, designed to facilitate the discovery and access of high-quality online educational resources.

### Cape Town Open Education Declaration, Dec 2007 [http://www.capetowndeclaration.org/;](http://www.capetowndeclaration.org/) Wendy Ermold, is a scientific programmer and field technician for the Polar Science Center

This collage is centered around the Cape Town Open Education Declaration. On the left, there is a document titled "THE CAPE TOWN OPEN EDUCATION DECLARATION" with a list of signatories and a date of "2007-12-07". In the center, there is a photograph of a person standing next to a large banner that reads "Declaration July 08 1776". On the right, there are several smaller images and text snippets, including a quote about the declaration's purpose: "to make a preliminary declaration of the rights and interests of open educational resources".

### University of the People (free!)

This collage features news articles about the University of the People. The main article is titled "Israeli Entrepreneur Plans a Free Global University That Will Be Online Only" and includes a portrait of the entrepreneur. Below it, there is a smaller article titled "Israel starts 1st tuition-free online university". The collage also includes a "Technology Review" logo and various social media-style icons and text snippets, highlighting the university's mission to provide free, accessible education globally.

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

This collage focuses on online learning object repositories and portals. It features a central text block that reads: "From left, three views of a fragment of one of the Dead Sea Scrolls: a plain digital image, a color scan and an infrared scan. August 27, 2008, Israel to Display the Dead Sea Scrolls on the Internet, By ETHAN BRONNER, The New York Times". To the left of the text, there are three small images showing different views of a scroll fragment. To the right, there is a screenshot of a website titled "The Learning World is Open" with a list of links and a search bar.

### Tracking Live Internet Thawing: A Colossal of an Idea

This collage is about tracking live internet thawing. It features a central text block that reads: "Deep-Sea Behemoth Captain John Bennett examines the world's first intact adult male colossal squid on board his New Zealand fishing boat in February, 2007, in the Ross Sea near Antarctica. The gigantic sea creature weighs a world record 1,089 pounds. After being frozen whole for over a year, scientists at New Zealand's national museum will thaw the squid for further study." Below the text, there are several small images showing a large squid being handled on a boat and in a laboratory setting. The collage also includes a "TAKE IT" logo and various social media-style icons.



### Ida (a transitional species) 47-Million-Year-Old *Darwinius Masillae* Fossil the Missing Link? (wowOwow, May 20, 2009)

horizons blog ?

MONITOR

RECOVERING OUR SILENT PAST

TIPSONE

Discover Fossil Evidence from the 47-million-year-old fossil is Darwin's Morphology and Phylogeny

### Japanese fishermen brace for giant jellyfish 7/19/2009, CNN Radio, By Shelby Lin Erdman <http://www.cnn.com/2009/WORLD/asiapcf/07/19/japan.jellyfish/index.html> Tiny T. rex, CNN.com, September 17, 2009 <http://www.cnn.com/2009/TECH/science/09/17/tiny.t-rex.dinosaur.discovered/index.html>

Japanese fishermen brace for giant jellyfish

STREET VIEWER'S GAZE

- Japan's 2009, Japan's Sea of Japan for Jellyfish (CNN.com 2009)
- Japan's Sea of Japan for Jellyfish (CNN.com 2009)
- Japan's Sea of Japan for Jellyfish (CNN.com 2009)

STREET VIEWER'S GAZE

STREET VIEWER'S GAZE

STREET VIEWER'S GAZE

### USA Today, July 21, 2009 Tech Confab With a Conscience Global [http://www.usatoday.com/tech/news/2009-07-20-goes-0-technology-entertainment-design-ted\\_n.htm](http://www.usatoday.com/tech/news/2009-07-20-goes-0-technology-entertainment-design-ted_n.htm)

TED CONFAB WITH A CONSCIENCE GOES GLOBAL

Bill Gates speaks at this year's TED conference

### What if the World was Beyond our World? NASA's Hubble Space: Google Sky) USA Today, August 22, 2007 <http://earth.google.com/sky/index.html>

Google Earth gazes into deep space

### The Complete Works of Charles Darwin and Shakespeare

The Complete Works of Charles Darwin

The Complete Works of Shakespeare

### Online Referenceware

Britannica Online School Edition

YAHOO! EDUCATION

### Online Reading Programs (See free-Reading.net) [http://free-reading.net/index.php?title=Main\\_Page](http://free-reading.net/index.php?title=Main_Page)

USA TODAY News » Education  
Free online materials could save schools billions

Letter Sound and Letter Combination Accuracy Sound Search Game

### Reflection on Online Contents: The Carlyle Letters Exploring Victorian World Through Letters and The Diary of Samuel Pepys, John Evelyn (Great Plague, Great Fire; Charles Dickens, Erasmus Darwin (grandfather of Charles Darwin), Mary Wollstonecraft Shelley, Robert Browning, John Stuart Mill, Ralph Waldo Emerson, Elizabeth Barrett Browning, and Alfred Tennyson)

### Referatory: MERLOT.org (67,000 members, 21,000 learning materials, 2/10/2009)

### Connections Growth, January 2009

>8,000 modules (3-5 pages)  
>425 collections (books and courses)  
*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 October 2008  
45 million hits  
2m page views  
1m unique users  
from 200 countries

### Opener #6. Learner Participation in Open Information Communities (e.g., Slashdot, Digg, Wikipedia, YouTube)

The Learning World is Open

flatworld KNOWLEDGE

creative commons

### Conference to Conference (You Ustreamed my Ustream: Now that's a Twitter of an Idea)

LIVE, INTERACTIVE BROADCASTING

**Wikis: Wikipedia and Wikibooks**

The Wikipedia police: Encyclopedia alert reports 20,000 editors to stop malicious tampering with entries

Web 2.0 and Emerging Learning Technologies

**Wikis in Early Childhood, Monster Writing**  
 (describe monster in writing to partner and must draw it); monsterproject.wikispaces.com

On Writing Learning: Project: The Monster Project

WELCOME TO Mrs. Buchanan's PRE-COLORED PENCIL LIBRARY

**Individual Produced Videos**  
 (e.g., African School Dream in CurrentTV)  
[http://current.com/items/77146082\\_african\\_school\\_dream](http://current.com/items/77146082_african_school_dream)

THE ROYAL CHANNEL

Kylie Minogue collects her OBE at Buckingham

**Global Nomads Group**  
<http://www.gng.org/home.html>

Global Nomads Group

**Link TV**  
<http://www.linktv.org/teachers>

link™

expl re

Give now

## Flora TV

[http://flora.tv/2009/07/06/Transforming the System An Interview with Michelle Rhee](http://flora.tv/2009/07/06/Transforming%20the%20System%20An%20Interview%20with%20Michelle%20Rhee)

The screenshot shows a video player interface for an interview with Michelle Rhee. The video player is the central focus, with navigation tabs for 'FORAN' and 'Markets' visible above it. The website header includes the title and URL.

## OSUB BETA

Twitter in Plain English

The screenshot displays the OSUB BETA website. A prominent section titled 'Twitter in Plain English' features a cartoon illustration of two people talking. To the right, there is a list of names and links. Below the main content, there are sections for 'A first experience of the technology since then?' and 'Our product is available'.

## The Future of the Internet

AND HOW TO STOP IT

JONATHAN ZITTRAIN

The screenshot shows a website with a dark background and white text. The main title is 'The Future of the Internet AND HOW TO STOP IT' by Jonathan Zittrain. The page contains several columns of text, images, and a sidebar with a 'Think Outside the Book' section.

## Posting Documents on Web

Scribd: <http://www.scribd.com/>; 21 million unique visitors per month, May 2008

The screenshot shows the Scribd website interface. The main heading is 'Posting Documents on Web'. Below it, there are sections for 'Upload Documents', 'Share with the World', and 'Explore Our Library'. The 'Upload Documents' section lists supported file formats like PDF, PPT, and DOC.

## LibraryThing: The World's Largest Online Book Club

(you can be a "thingamabrarian;" 500,000 users and 35 million books on member bookshelves)

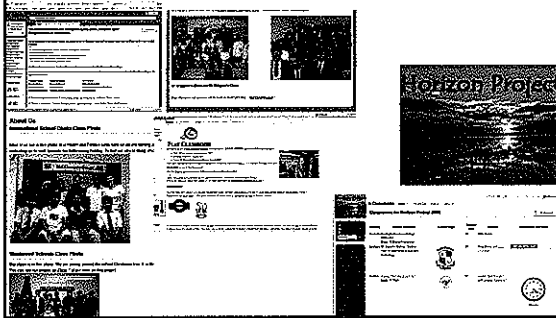
The screenshot shows the LibraryThing website. The main heading is 'LibraryThing: The World's Largest Online Book Club'. Below the heading, there is a large image of a person reading a book in a library setting. The website interface includes a search bar and a grid of book covers.

## Opener #7. Electronic Collaboration and Interaction

(synchronous & asynchronous)

The screenshot shows a presentation slide. The main title is 'Opener #7. Electronic Collaboration and Interaction (synchronous & asynchronous)'. The slide features several images, including a book cover for 'edutopia: The Collaboration Age' and a group of people interacting. There are also smaller images of individuals and a 'NEW BOOK FOR BROWSE' section.

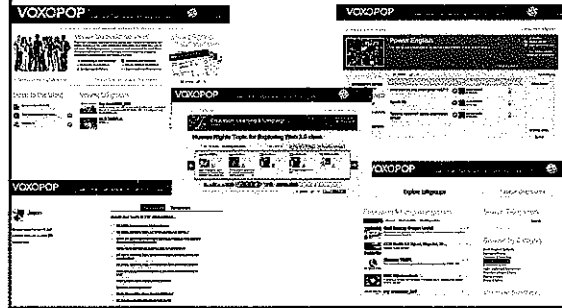
**Flat Classroom Projects!!! (combine blogs, videoconferencing, chat, async discussion, etc.)**



**Iran after the June Election**  
<http://www.cnn.com/video/#/video/world/2009/06/17/amanpour.uk.covering.iran.cnn>



**Voxopop (audio threaded conversations)**  
<http://www.voxopop.com/>



**TutorVista has 600 tutors in India and 10,000 subscribers in the United States, including Kenneth Tham in Arcadia, Calif.**

**EPals has for-profit and nonprofit arms.**

Candace Pauchnick, standing, uses its tools in her class.

By **STEVE LOHR**

Published: February 24, 2008

New York Times

<http://www.nytimes.com/2008/02/24/business/24social.html>



**What if your children could interact with explorers in Antarctica?**

**Room to Read and 1kg**  
<http://www.roomtoread.org/programs/schools.html>  
<http://www.1kg.org/>

**Opener #8. Alternate Reality Learning (Online Massive Gaming, Simulations, and Virtual Worlds; e.g., Second Life)**

**Opener #9. Real-Time Mobility and Portability (e.g., iPhone, low cost wireless devices)**

**Terabyte thumb Drives and Magic Pens!**  
**(The Pulse from Livescribe)**  
 Second, we need new ways to record info:  
 Smartpens: "Never Miss a Word"

## Mobile Learning

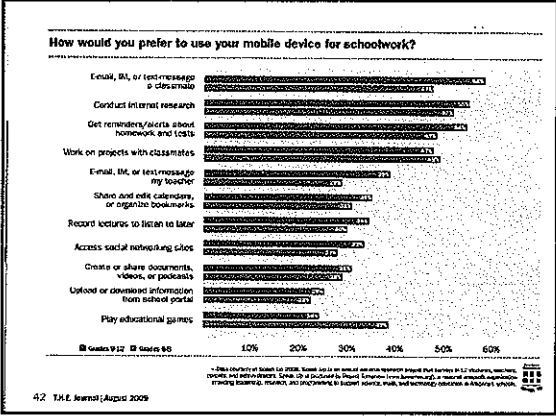
(April 21, 2009, USA Today)

Simple and colorful

## Got that Virtual Glow?

USA Today, August 3, 2009  
Olivia Barker  
<http://www.usatoday.com/printedition/life/20090803/index.htm>

- Americans browsed the Web an average of 4.6 hours a month from their smartphones, an 89% increase from 2007.
- Megan Renz, typically sends around 700 texts a day...



## Littlist patients find distraction, comfort in live feeds from zoos

USA Today, September 8, 2009  
[http://www.usatoday.com/news/health/2009-09-07-zootv\\_N.htm](http://www.usatoday.com/news/health/2009-09-07-zootv_N.htm)

## 60 Second Recap

<http://www.60secondrecap.com/>  
Actress to students: Lend me your earbuds!  
English major, 24, rambunctiously recaps the classics in 60-second Web videos; By Greg Toppe; USA TODAY  
[http://www.usatoday.com/printedition/life/20090908/booksinminute08\\_st.art.htm?loc=interstitialskip](http://www.usatoday.com/printedition/life/20090908/booksinminute08_st.art.htm?loc=interstitialskip)

## Mobile Learning in India with Paul Kim

<http://www.stanford.edu/~phkim/curt/India.pdf>

### Video Blogs and Mobile Digital Portfolios

### Wireless in Africa and Pocket School in Latin America (Paul Kim, 2008)

<http://www.receiver.vodafone.com/mobile-learning-in-developing-countries>  
 Traxler, John (in press). Mobile learning in "developing" countries—not to different. *Vodafone Receiver*. See <http://www.receiver.vodafone.com/>

### Africa is Going Mobile!

**40,000 new mobile subscribers a week in Rwanda;** Rwanda Newtimes report, January 2009  
**Africa is the continent with the fastest growth, where penetration has soared from just one in 50 people at the turn of the century to 28%.** International Telecommunications Union (ITU), March 2009

**India:** In 2008, 7M new mobile subscribers a month. In January, 2009, the number sky rocketed to 15.4M (Growth was driven by people in the poorest region)  
**Globally: 60,000 new mobile subscriptions every hour!!!**

(per Paul Kim, Stanford, 2009); Nokia Research Lab  
[http://news.yahoo.com/s/afp/20090308/bx\\_afp/Indiaconomytelcom](http://news.yahoo.com/s/afp/20090308/bx_afp/Indiaconomytelcom)

### Opener #10. Networks of Personalized Learning (Blogs, Podcasts, MySpace, Flickr, and RSS)

The Learning World is Open

### Create a Social Networking Group (MySpace, Facebook, LinkedIn)

### Learning Towns are Popping up!



**Podcast Shows TWiT  
(This Week in Tech)  
<http://live.twit.tv/>**



**Predictions**

1. Five Billion "Have-Nots" Have at It!
2. Emergence of Lifelong Super E-Mentors/Coaches
3. Quarter-Century Learning Clubs
4. Terabyte Learning Access Points
5. The Veneration of Learning
6. Personalization+ Portfolios
7. The Selection of Global Learning Partners
8. The Shared Learning Era
9. Teaching-Learning Perpetuities
10. Teachers, Teachers
11. The Rise of the Super Blends
12. Self-Determined Humans
13. Free Learning Zones
14. Authentic Learning Amalgamations
15. Alexandrian Aristotles



**Slides at: TrainingShare.com  
Papers: PublicationShare.com  
Book: <http://worldisopen.com/>  
The World is Open.  
What happens then?**

