The Flat World Swung Open: How Web Technology Is Revolutionizing Education

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UCLA Summer Digs Program
Dig in, archaeology fans! UCLA blogs to offer front-row seat at archaeology digs, Meg Sullivan, 6/25/2008

Michael Perham & Zac Sunderland,
Summer 2009 (each age 17, youngest person to sail solo around the world...and blog on it, use Skype, YouTube, take videos, post pictures, now Abby Sunderland age 16, Wimona Satoz, age 75, oldest solo sailor)

David Thomas, Archeologist, La Trobe University, Australia (Discovery News)

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 context)
- 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)

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

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.)

Tablet May Help E-Textbook Market, Publishers Hope Chronicle of HE, Jeffrey Young January 31, 2010

Guests play with Apple's new iPad at an event announcing its debut in San Francisco. At least one college is considering giving iPads to new students, but the jury on whether the device will revolutionize learning will be out for a while.

Free Online Books (Terry Anderson and Fatih Elloumi, eds. Theory and Practice of Online Learning; Canada: Athabasca University, 2004),
http://ode.athabascau.ca/online_book/, 55,000 downloads in first year

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

Opener #2. E-Learning and Blended Learning

Letter from Bill Gates about online learning (January, 2010)
http://www.gatesfoundation.org/annual-letter/2010/Pages/education-learning- online.aspx

all references linked
IScAR: Integration of Science, Mathematics, and Reflective Teaching (IScAR) is a FREE 2-year online graduate program for middle school science and mathematics teachers in Texas, University of Houston
http://www.coe.uh.edu/iscar/iscar.html
http://www.coe.uh.edu/education/cell/math/iscar.htm

Learning on Demand: Online Education in the United States, 2009
http://www.abest.org/learning_on_demand_2009

What does the research say?
U.S. DEPARTMENT OF EDUCATION

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

Moodle (32+ million registered users in 208 countries, 3+ million courses, 2/6/2010)
Opener #4. Leveraged Resources and OpenCourseWare (OCW) (e.g., free courses from MIT, Utah State, CORE, OOPS)

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

Opensource OpenCourseware Prototype System (OOPS) funded by, the Foundation of Fantasy, Lucifer Cho, Chairman and Janitor of OOPS, Taipai

Peer2Peer University and University of the People (free!

Nearu Paharia is behind Peer2Peer University, Fast Company, September 2009, How Web-Savvy Edupunks Are Transforming American Higher Education

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

Link TV, Academic Earth, TV Lesson, and Fora TV
Ida (a transitional species)
47-Million-Year-Old Darwinius Masillae Fossil the Missing Link? (wowOwow, May 20, 2009)

The Royal Society 350th anniversary celebrations puts historic papers online (Captain Cook, Sir Isaac Newton and Benjamin Franklin), BBC, Nov 30, 2009
http://news.bbc.co.uk/2/hi/uk_news/nature/8401392.stm

Audio collections: 200 years of discovery

Human Brain Dissected Today in a Live Webcast, Chronicle of Higher Education,
December 01, 2009, 03:00 PM ET
http://chronicle.com/BlogsPost/Human-Brain-Dissected-Today-
795/2009/12/human-brain-dissected-online,
response-publishing_reform.htm

Sharing Repositories and Referatories
MERLOT.org: 78,472 members, 21,690 IIRG materials, Jan 3, 2010
Connections: Dec 2009, 1.6m unique users, 4 million page views,
72 million hits, More than 1m users, 100 countries
National Repository of Online Course, DER Commons

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

Wikis: Wikipedia and Wikibooks
Conference to Conference
(You Ustreamed my Ustream: Now that's a Twitter of an Idea)

Shared Online Video
(e.g., YouTube and the Royal Channel)

Scribd: Documents on Web

Opener #7. Electronic Collaboration and Interaction
(synchronous & asynchronous)

Synchronous Conferencing Presentations

The Next Generation of Videoconferencing
Chronicle of HE, October 21, 2009
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)

We Are Going Mobile!
40,000 new mobile subscribers a week in Rwanda; Rwanda NewsTimes report, January 2009
Africa is the continent with the fastest growth; International Telecommunications Union (ITU), March 2009

India: In January, 2009, the number skyrocketed to 15.4M
Globally: 60,000 new mobile subscriptions every hour!!!

(per Paul Kim, Stanford, 2009); Nokia Research Lab

Terabyte thumb Drives and Magic Pens! (The Pulse from Livescribe, $120-$160)

Mobile Learning
(April 21, 2009, USA Today)
Opener #10. Networks of Personalized Learning (Blogs, Podcasts, MySpace, Flickr, and RSS)

September 30, 2009
the Samsung DualView TL225

Podcast Shows
(subscribe to ShakespeareCast.com)

Teaching With Twitter
Chronicle of NE, Jeffrey Young, November 22, 2009

Sergio Galvez, a professor of computer science and mathematics at Portland Community College, has introduced Twitter into the lecture hall, even though the students engage in off-channel discussions. The questions submitted via Twitter for the professor and guest speakers are projected for all the students to see.

Livemocha (29 languages, 160 hours of lessons, over 2 million users, FREE!)

Predictions
1. Five Billion "Haves-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 Mosaics
15. Alexandrian Aristotles

Slides at: TrainingShare.com
Papers: PublicationShare.com
Book: http://worldisopen.com/
The World Is Open.
What happens then?

WE ALL LEARN!!!