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

Grandpa George (Goronja)
(West Allis, Wisconsin, built tractors 40+ years)

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)

**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.

**Audience Participation!**
1. **WE**
2. **ALL**
3. **LEARN!!!**
Trend #1. Web Searching in the World of e-Books. What happens then? WE ALL LEARN!!!
Free Online Books
(Terry Anderson and Fatih Elloumi, eds. *Theory and Practice of Online Learning: Canada: Athabasca University, 2004)*
[https://cds.athabascau.ca/online_book/; 45,000 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

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

WE
ALL
LEARN!!!

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

Indiana University High School
(4,000 students and 1,400 enrolled in diploma programs)
Adora Svitak, age 11, World’s Youngest Teacher

iSMART: Integration of Science, Mathematics, and Reflective Teaching (iSMART) 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/programs/colleges/edu/Mathematics/ismart.html
http://www.coe.uh.edu/moom/CSU/math/ismart.cfm

You see the big picture. You find the connections. Make it official--become iSMART.

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

<table>
<thead>
<tr>
<th>Year</th>
<th>Total Enrollment</th>
<th>Online Enrollment</th>
<th>Online % of Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall 2002</td>
<td>15,367</td>
<td>724</td>
<td>4.7%</td>
</tr>
<tr>
<td>Fall 2003</td>
<td>15,219</td>
<td>744</td>
<td>4.9%</td>
</tr>
<tr>
<td>Fall 2004</td>
<td>15,205</td>
<td>1,284</td>
<td>8.5%</td>
</tr>
<tr>
<td>Fall 2005</td>
<td>17,574</td>
<td>3,682</td>
<td>20.9%</td>
</tr>
<tr>
<td>Fall 2006</td>
<td>17,574</td>
<td>4,055</td>
<td>23.0%</td>
</tr>
</tbody>
</table>

Open Teaching
(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)

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

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

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)

OpenCourseWare (OCW)
Cute Kitten or Transformation?

Opensource OpenCourseware Prototype System (OOPS) funded by, the Foundation of Fantasy, Lucifer Chu, Chairman and Janitor of OOPS, Taipei
Academic Earth
http://academicearth.org/

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

Tracking Live Internet Thawing:
A Colossal of an Idea

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

The Complete Works of Charles Darwin

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

The Royal Society 350th anniversary celebrations
puts historic papers online (Captain Cook, Sir Isaac
Newton and Benjamin Franklin), BBC, Nov 30, 2009
https://news.bbc.co.uk/2/hi/science/nature/814533.xm1
Shared Online Video (e.g., YouTube and the Royal Channel)

Individual Produced Videos (e.g., African School Dream in Current TV)
http://current.com/item/77146682_african_school_dream

TV Lesson (How-to lessons from experts:
1,000's of instructional videos and articles;
http://www.tvlesson.com/)

Link TV and Fora TV

dotSUB (subtitling video)

Participatory E-Books
Scribd: Documents on Web

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

Synchronous Conferencing Presentations

Iran after the June Election

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

Voxopop (audio threaded conversations)
http://www.voxpop.com/
Adventure Learning, GeoThentic, GoNorth (National Geographic) (Aaron Doering, Univ of Minnesota)

Global SchoolNet
http://www.globalschoolnet.org/index.cfm?section=Programs

Ice Stories Project from Antarctica

1kg More Project for Rural China
(http://www.1kg.org/)

Mongolia teachers addressing H1N1 (Otgo Okhidol, Nov 10, 2009)

Opener #8. Alternate Reality Learning (Online Massive Gaming, Simulations, and Virtual Worlds; e.g., Second Life)
Second Life
(business, law, education, English, medicine)

University of Texas: 50 Islands, Nov 2009
http://archive.treet.tv/metanomics-campus-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 News Times report, January 2009
Africa is the continent with the fastest growth, International Telecommunications Union (ITU), March 2009

India: In January, 2009, the number sky rocketed 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, $129-$169)

TwitterPeek, WikiReader not worth the loot, USA Today, Edward Baig, November 5, 2009

TwitterPeek: Restricted to Twitter.
WikiReader: Updating can be a pain.
Mobile Learning in India with Paul Kim

Mobile Learning
(April 24, 2009, USA Today)

'One Laptop Per Child' program collides with reality
GEORGE YORK, Toronto Globe and Mail, Oct 15, 2009
Bhutan, Khendrum Gyabak (Univ. of Texas at El Paso)

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

September 30, 2009
the Samsung DualView TL225

Teaching With Twitter, Chronicle of HE, Jeffrey Young
November 22, 2009.
Suppose Chairwoy, a professor of consumer behavior and retailing at Purdue University, has纳入Twitter into his lecture hall, even though the socially networked students engage in back-channeled discussion. The question submitted via Twitter for the professor and guest speakers are projected for all the students to see.

Facebook: The New Classroom Commons?,
Chronicle of HE, Harriet L. Schwartz, Sept. 28, 2009

Growth of social networking sites
August 05
August 07

Social Networking
Facebook
Twitter
MySpace

Growth of social networking sites
August 05
August 07
Podcast Shows
(subscribe to ShakespeareCast.com)

Learning Towns are Popping up!

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

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

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

WE ALL LEARN!!!