1728: 1st correspondence course advertised Boston (learn shorthand from Caleb Phillips thru weekly mailed lessons)
1728-1990s – Generally postal system based
1930s – phonograph and radio
1950s and 1960s – television
1970s and 1980s – VHS tapes
1980s and 1990s – DVD

February 26, 2013
Tablets Rock On: Education Tech Through The Ages, Information Week, The First Correspondence Course (University of London, External Program, 1858)

May 10, 2013
10 ed-tech tools of the 70s, 80s, and 90s eSchool News, Meris Stansbury

William Rainey Harper, first president of the University of Chicago, developed the concept of extended education. Research Univ. had satellite colleges of education in the wider community.
In 1892, he also encouraged the concept of correspondence school courses to further promote education, an idea that was put into practice by Columbia University.
Looking to the Past...

Life as an accountant/CPA in a high tech company in the 1980s...

Took Correspondence & TV Courses (thanks to Bob Clasen and Charles Wedemeyer, the University of Wisconsin)

Knowledge Navigator (1987)
Apple Computer

Fast Forward 25+ Years...
"Anyone can now learn anything from anyone at any time."

February 26, 2013
Free Tablets for Everyone?
http://www.informationweek.com/education/leadership/educational-technology-across-the-ages/240149241
Actually Technology is Almost Free...

DataWind Prepared $20 Tablet Computer for Indian Market

The truth about India's $ 18 computer

http://www.deccanherald.com/India/17678.html

February 20, 2013

Star Trek-like holodeck may be closer to reality than you think

Matt Hartley, Financial Post, Canada

http://business.financialpost.com/2013/02/20/star-trek-like-holodeck-may-be-closer-to-reality-than-you-think/?__lsa=054d-d58d

The Next Generation is Here!

The New Greatest Generation: Why Millennials will Save Us All, Time, Joel Stein

http://www.time.com/time/magazine/article/0,9171,2143001,00.html

November, 2012

Degrees of Difficulty, Time

http://nation.time.com/2012/10/18/degrees-of-difficulty/

Student debt loads are increasing

Average debt (2013 dollars)

<table>
<thead>
<tr>
<th>Year</th>
<th>Percentage</th>
<th>$14,500</th>
<th>$26,600</th>
</tr>
</thead>
<tbody>
<tr>
<td>1995</td>
<td>46%</td>
<td>991</td>
<td>1241</td>
</tr>
<tr>
<td>2000</td>
<td>66%</td>
<td>1462</td>
<td>2373</td>
</tr>
<tr>
<td>2012</td>
<td>162%</td>
<td>444</td>
<td>1562</td>
</tr>
</tbody>
</table>

Having fewer degrees threatens our global competitiveness

Washington Monthly, Kevin Carey,

September/October, 2012

The Siege of Academy


Washington
Learning is Changing
New Technologies =
New Delivery Methods...

Audience Polls #2:
I. Who remembers where they were when they found out that Steve Jobs passed away?
II. Who remembers what they were doing on the day that John F. Kennedy was shot?
III. Who remembers what they were doing on 911?
IV. Who remembers what they were doing on 441?

Charles Vest (April 4, 2001)
"This is about something bigger than MIT. I hope other universities will see us as educational leaders in this arena, and we very much hope that OpenCourseWare will draw other universities to do the same. We would be delighted if -- over time -- we have a world wide web of knowledge that raises the quality of learning -- and ultimately, the quality of life -- around the globe."

OCW Circuits and Electronics

I. Learning is More Open
(80-Year-Old WGU Texas Grad Keeps His Promise, November 30, 2012, Reeve Hamilton, Texas Tribune)

II. Learning also is More Collaborative
Collaboration and Discussion in Google Hangouts or with iPad, Jan. 28, 2013
(Carrie Gong from Beijing Normal University)
III. Learning is More Mobile
Brown, Keynote talk, "Learning in Hand With Mobile Technology," Wisconsin Distance Teaching and Learning Conference, August 10, 2012

IV. Learning is More Video-Based
Adora Svitak, WFP Youth Representative - 2013 ECOSOC Youth Forum, March 27, 2013

V. Learning is More Social
Facebook reaches one billion users, CNN Money, Aaron Smith, October 4, 2012

VI. Learning is More Personal
iPotty Aims To Entertain Toddlers During Toilet Training, Mashable, Kate Freeman (January 10, 2013)

VII. Learning is More Modifiable
Inside Look: Learning Spaces, Meeting classroom teaching and collaboration expectations, University Business, Feb. 22, 2013

VIII. Learning is More Comfortable
Design for Students, with Students, "Hub Central", the $42 million University of Adelaide learning hub opened in October 2011, May 6, 2012, Mike Roberts

http://designbuildsource.com.au/design-for-students-with-students

"Sharing innovative educational practices among the, current and future web-based learning revolution", approached by the World Food Programme. Youth access to technology is a key to enabling them to participate in decision making processes.
IX. Learning is More Massive
April 16, 2013 (NovoEd)
New MOOC Provider Says It Fosters Peer Interaction
Chronicle of Higher Education, Jake New
http://novoed.com/

October 1, 2012: MOOC Students
4 Massive Open Online Courses and How They Work, Ben Gose, Chronicle of HE

October 27, 2012
Travel for Office Hours
Chuck Severance, (U Michigan/Coursera) in Barcelona
http://www.youtube.com/watch?v=JzNHvmSv8TI

November 2, 2012
The Year of the MOOC,
New York Times, Laura Pappano,
http://www.nytimes.com/2012/11/04/education/massive-open-online-courses-are-multiplying-at-a-rapid-pace.html?pagewanted=all

Clockwise, from top left: an online course in circuits and electronics with an M.I.T. professor (edX); statistics, Stanford (Udacity); machine learning, Stanford (Coursera); organic chemistry, University of Illinois, Urbana (Coursera).

April 20, 2013
Two Cheers for Web U!
A. J. Jacobs, New York Times
May 6, 2013
Faculty Backlash Grows Against Online Partnerships
Chronicle of Higher Education, Steve Kolowich
http://chronicle.com/article/Faculty-Backlash-Grows-Against/139049/

June 19, 2013
2013 is "The Year of the Anti-MOOC"
George Siemens, UW-Madison Summit

August 8, 2013
The MOOC 'Revolution' May Not Be as Disruptive as Some Had Imagined
Steve Kolowich, Chronicle of Higher Ed

August 19, 2013
Feminist Anti-MOOC
Scott Jaschik, Inside Higher Ed
http://www.insidehighered.com/news/2013/08/19/feminist-professors-create-alternative-moocs

X. Learning is More Ubiquitous
Flexible displays bend what’s possible for computers,
Jon Swartz, USA Today (May 4, 2012)

XI. Learning is More Instantaneous
April 9, 2013
HER Computer fashion face social test: Can wearable computers fit in? Scott Martin, USA Today
(i.e., magnify moles or injuries, see vital signs, live stream surgeries, access previous PT sessions, access research and drug info, etc.)
XII. Learning is More Global
UC Irvine (2013 report)

Example 3: Fundamentals of Japanese
Dr. Hidemi Riggs, Fall 2012 & Winter 2013, Tech-enhanced: EEE Advanced Webspace (Dreamweaver), Skype video conferencing tool, Active Learning, Format: 5-1A lectures (24 students maximum); 3-2A lectures (24 students maximum); 2-3A lectures (24 students maximum)

February 22, 2013
NASA's spacey Google+ Hangout shows off zero-G antics – and cats!
http://cosmiclog.nbcnews.com/_news/2013/02/22/17057588-nasas-spacey-google-hangout-shows-off-zero-g-antics-and-cats?lite

Learning is Changing the World
(Book Review: Ed Tech Mag, May-June 2013)

April 15, 2013
World will soon be “Webified”
Google boss: Entire world will be online by 2020, Doug Gross, CNN

Google Wi-Fi from the Sky, Steven Levy, pp. 126-131, Wired, September 2013
http://www.wired.com/gadgetlab/2013/08/googlex-project-loon/

Google X chief Astro Teller (left) and Project Loon’s first leader, Rich DeVaul, holding the system’s ground-based antennas.

Question:
What is the Web?
- An entertainment system?
- A writing aid?
- A communications system?
- A means to handle commercial transaction?
- A social networking device?

No, it is a learning tool!
The Web of Learning

Blogging Field Archeology Research
(e.g., Lily Henry Roberts, UCLA digging in Hope, BC, Stó:lō First Nation people from 12,000 years ago)

Virtual High School Learning by Boat
(e.g., Bridey Fennell and her family sailing and learning in the Caribbean)

It is very open!
(at least in Norway & the Philippines)

Why I spent 10th grade online. Sophia Pink, Washington Post, August 23, 2013

Honk If You Love Someone, Sophia Pink, January 1, 2013
Framework #1: 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)

Audience Participation!
WE ALL LEARN!!!

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.
January 22, 2013
Free digital textbooks surge in popularity, Sarah Langmead, Assistant Editor, eCampus News,

OpenStax College
(OpenStax College offers students free textbooks that meet scope and sequence requirements for most courses. These are peer-reviewed texts written by professional content developers.)
http://openstaxcollege.org/

Opener #2. E-Learning and Blended Learning

January 15, 2013
Online programs offered by Kelley and IU schools of education and nursing highly ranked by U.S. News, IU News Room

More than six million post-secondary students are taking online classes in the USA; growing by 10% per year.
August 5, 2013
Free Online Higher Education: 5 Best MOOCs
By Kannan Sankaran, Epoch Times
http://www.theepochtimes.com/n3/229640-5-best-moocs-for-free-online-higher-education/
MOOC at UPenn; Recession Fuels Explosion of Online Learning
http://www.youtube.com/watch?v=5zrFH4D0tw

August 18, 2013
Virtual U: Master’s Degree Is New Frontier of Study Online
Tamar Lewin, The New York Times
http://www.nytimes.com/2013/08/18/education/masters-degree-is-new-frontier-of-study-online.html?_r=0

August 19, 2013
Entrepreneurship Curriculum
NovoEd, Amin Saberi
https://novoed.com/courses/entrepreneurship

Opener #3. Availability of Open Source and Free Software Moodle
(July 18, 2013: 72 million users in 237 countries, 84,518 sites, 7.6 million courses)

Opener #4. Leveraged Resources and OpenCourseWare (OCW) (e.g., free courses from Harvard Edx, MITx, CORE, OOPS)
Saylor.org
http://www.saylor.org/
RedHoop
http://redhoop.org/
February 16, 2012
Online Badges and Certifications from OER
University of Illinois at Springfield, Ray Schroeder
https://sites.google.com/site/opencontinuinged/

Badges and other alternative certifications

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

http://www.deadseascrolls.org.il/explore-the-archive
http://www.deadseascrolls.org.il/explore-the-archive/search#q=site_en:'Qumran,_Cave_4'
http://www.deadseascrolls.org.il/home

Online Encyclopedias
(e.g., the Encyclopedia of Earth:
http://www.eoearth.org/)

Educational Videos: TED-Ed
http://education.ted.com/

History for Music Lovers, Washington Post
The French Revolution ("Bad Romance" by Lady Gaga)
Trojan Way ("Tainted Love" by Soft Cell)
Charlemagne ("Call Me" by Blondie)
http://www.youtube.com/user/historyteachers?blend=6&ob=5#p/f/12/kJULC0jsgdA

October 2010, The V-PORTAL (Bonk, IU)
"Video Primers in an Online Repository for e-Teaching and Learning" V-PORTAL,
TravelinEdMan (27 free/open YouTube videos)
http://www.youtube.com/user/TravelinEdMan
Opener #6. Learner Participation in Open Information Communities (e.g., Slashdot, Digg, Wikipedia, YouTube)

Flipgrid (video discussions) http://flipgrid.com/info/


Google Hangouts Class Sync Collaboration and Discussion (Spring, 2013)

April 15, 2013 Guest Speakers Sara de Freitas and Jim Hensman (https://connect.iu.edu/p2ts2yststek/) Jay Cross (https://connect.iu.edu/p206pmn8tr/)
Combining Asynchronous and Synchronous Events (flipping classes)

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

September 5, 2013
Video games may improve brain power in older adults

Opener #9. Real-Time Mobility and Portability (e.g., iPhone, low cost wireless devices)
60,000 earthlings/hour get mobile

Uploading Mobile Books
(e.g., BookRix, http://www.bookrix.com/)

Military Mobile Learning (See: the U.S. Army Learning Concept for 2015).
http://www.youtube.com/watch?v=KD9NGAV3-3k (4:26 minutes)

Mobile Video Connections to Experts and Friends

Expert Access from Our Watches

Smartphones and Mobile Learning.

Opener #10, Networks of Personalized Learning (Blogs, Podcasts, MySpace, Flickr, and RSS)
**September 4, 2013**
First impression: Galaxy Gear - welcome to wearable computing, USA Today, Edward Baig,

**December 16, 2010**
Introducing Word Lens
http://www.youtube.com/watch?v=hZOfOsYrHRc

**May 22, 2013**
Video Walls of Experts (IQ Wall)
Indiana University unveils high-tech classroom
The Herald-Times, Mike Leonard
http://www.indianaeconomicdigest.net/main.asp?SectionID=31&SubSectionID=135&ArticleID=69980

**June 3, 2012**
Tutor/Mentor Connection (Chicago)
http://www.tutormentorprogramlocator.net/InteractiveMap.aspx

**September 5, 2013**
Do you really want personalized feedback???

**Wait, we are not done yet!**
What about the Instructor in the Open World?

1. Instructor as Credit Manager

2. Instructor as Camp Commander

3. Instructor as Court Room Judge

4. Instructor as Cat Herder

http://www.youtube.com/watch?v=Pk7yqlTMvpo
5. Instructor as Casino Operator

6. Instructor as Counselor

7. Instructor as Consultant

8. Instructor as Conductor

9. Instructor as Course Ambassador

10. Instructor as Curator
11. Instructor as Concierge

12. Instructor as Camping Trip Guide

13. Instructor as Cultivator

Instruction as a Cognitive Apprenticeship

Finally...

Decisions for this Open Ed World:

- Technology & Administrator Decisions:
  - What do to about OER, open source, E-books, mobile, etc.?
- Instructional Designer & Trainer decisions:
  - Act as Concierge, Counselor, Course facilitator, Credit manager?
- Formal Learner & Informal Lrn'r decisions:
  - Should I attend traditional university or create your own degree path?
  - How to report use of OER on resumes?

Slides at: TrainingShare.com
Papers: PublicationShare.com
Book: http://worldisopen.com/

WE ALL LEARN!!!