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

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/transform-the-ages/240149241

http://www.youtube.com/watch?v=hb4AzF6wEoc
Actually Technology is Almost Free…

DataWind Prepared $20 Tablet Computer for Indian Market

The Next Generation is Here!

May 20, 2013
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/

September/October, 2012
The Siege of Academy
Washington Monthly, Kevin Carey,

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 D. 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 8, 2012, Mike Roberts

IX. Learning is More Massive
April 16, 2013 (NovoEd)
New MOOC Provider Says It Fosters Peer Interaction
Chronicle of Higher Education, Jake New
January 23, 2013: The Bush MOOC Party?
Academic Partnerships Launches MOOC2Degree Initiative
Free, Open Online Courses As A First Step Toward A Degree
http://www.mooc2degree.com/

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

Rajeev Bajpai, an airline pilot based in Mumbai, took an online computer-science course to gain programming skills.

Krissa Swain, of Knoxville, Tenn., is taking "Operations Management" online to help develop her management skills.

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/edlife/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/139848/
June 19, 2013
2013 is “The Year of the Anti-MOOC”
George Siemens, UW-Madison Summit

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 fashions face social test: Can wearable computers fit in? Scott Martin, USA Today
http://www.usatoday.com/story/tech/2013/04/06/google
dailyonye
dayglass
nike
microsoft
samsung/1979419/

(i.e., magnify moles or injuries, see vital signs, live stream surgeries, access previous PT sessions, access research and drug info, etc.)
http://www.fiercemobilehealthcare.com/story/google
glasses
could
have
strong
potential
healthcare
use/2013
03
18

XI. Learning is More Global
UC Irvine (2013 report)
Example 3: Fundamentals of Japanese
Dr. Hidemi Riggs, Fall 2012 & Winter 2013, Tech-enhanced: EEE AdvancedWebspace (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)

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
**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**

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

**We are entering a jumping off point...**

**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”**

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.)**

---

**January 22, 2013**

Free digital textbooks surge in popularity, Sarah Langmead, Assistant Editor, eCampus News,


---

**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=52rFiM40l5w

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)

http://www.saylor.org
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/

Saylor.org
http://www.saylor.org/
RedHoop
http://redhoop.org/

Opener #4. Leveraged Resources and OpenCourseWare (OCW) (e.g., free courses from Harvard Edx, MITx, CORE, OOPS)
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

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

Opener #7. Electronic Collaboration and Interaction (synchronous & asynchronous)
Soliya Connect
http://gli.georgetown.edu/#soliya

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

February 26, 2013
Tablets Rock On: Education Tech Through The Ages, Information Week
http://www.informationweek.com/education/leadership/educational-technology-across-the-ages/240149241
Google Hangouts
Class Sync Collaboration and Discussion
(Spring, 2013)

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)
60,000 earthlings/hour get mobile


Opener #10. Networks of Personalized Learning (Blogs, Podcasts, MySpace, Flickr, and RSS)
What about the Instructor in the Open World?

1. Instructor as Credit Manager

7. Instructor as Conductor

9. Instructor as Curator
10. Instructor as Concierge

From Tinkering to Tottering to Totally Extreme Learning...

Tinkering

Tinker #1.
Using Online Encyclopedias
(e.g., the Encyclopedia of Earth:
http://www.eoearth.org/)

Tinker #2.
Educational Videos: TED-Ed
http://education.ted.com/

Tinker #3.
Tracking the Life of a Scientist
(e.g., Brian J. Ford, independent scientist)
http://www.youtube.com/user/tellymonitor?feature= einmalheit
http://www.yourun Giá paraas à laar
http://www.labnews.co.uk/news/prehistoric-revolution
http://www.youtube.com/watch?v=kJnRtFHsCk?rel=0

Tinkering
Tottering

Totter #1. Combining Asynchronous and Synchronous Events (flipping classes)

Totter #2. Multiple Guest Experts
Sara de Freitas and Jim Hensman, U of Coventry, UK
Jay Cross, Berkeley

Totter #3. Uploading Mobile Books
(e.g., BookRix, http://www.bookrix.com/)

You Want Totally Extreme?
Apple’s new ‘spaceship’ campus: What will the neighbors say?, Doug Gross, CNN, May 22, 2012

Totally Extreme #1.
iPod Learning from MIT OCW
(e.g., Wendy Ermold, University of Washington)
Totally Extreme #2.
February 22, 2013 and May 12, 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

Space Oddity - Chris Hadfield video onboard ISS with Larrivée Guitar
International Space Station Commander, Chris Hadfield, performs a revised version of David Bowie’s Space Oddity.

http://www.youtube.com/watch?v=lc8BcBZ0tAI&feature=player_embedded

Totally Extreme #3.
MBAs from War Zones…!

Totally Extreme #4. Blog Adventures
Tracing the fate of Algal Carbon Export in the Ross Sea, Antarctica
TRACERS: The NBP13-02 Cruise, February 12 to April 5, 2013
http://tracers-nbp13-02.blogspot.com/p/the-project.html

From: Cassandra Brooks [cbrooks1@stanford.edu]
Sent: Thursday, January 31, 2013 12:09 AM
Subject: I’m heading out today to New Zealand, then flying to Antarctica where we pick up our NSF icebreaker. We’ll be at sea for about 54 days.

Totally Extreme #5.
Video Walls of Experts

Totally Extreme #6. Interactive Globes
(e.g., NY Times Interactive Photo Globe)
http://www.nytimes.com/interactive/2010/05/03/blogs/a-moment-in-time.html?_r=0

Who is Content Now?
And Who is Stretched Now?
Website: www.Extreme-Learning.com
Slides at: TrainingShare.com
Book: http://worldisopen.com/
Dr. Curt Bonk – CJBonk@Indiana.edu