30 Emerging Learning Technologies

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Technology of the 1980s

Knowledge Navigator (1987)
Apple Computer
http://www.youtube.com/watch?v=hb4AzF6wEoc

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

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

Learning is More Open
(80-Year-Old WGU Texas Grad Keeps His Promise, November 30, 2012, Reeve Hamilton, Texas Tribune)
**Tech #1. Tablet Computing**

**Tech #2. Digital Books**

**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/

**Tech #3. User-Designed E-Books.**
How to turn Wikipedia into an e-book, John D. Sutter


**Tech #4. Social Books**
(e.g., Subtext; http://subtext.com/)

**Tech #5. Smartphones and Mobile Learning**
How Are You Feeling Today? A New Mood-Measuring App Can Tell You,
Paula Bernstein, Fast Company, December 2013

Tech #6. Learning Portals
Google Art Project, NBC Nightly News
http://www.msnbc.msn.com/id/3032619/vp/46945508#46945508

Announcing MERLOT II: Multimedia Educational Resource for Learning and Online Teaching
http://www.merlot.org/merlot/index.html?action=find

Possible Learning Portals for ACSM?

Tech #7. Media Tools:
Timelines, Maps, Pics, Videos, etc. (e.g., USA Today, August 26, 2011)

Interactive Map Timelines
(adults with college degrees by county, May 7, 2012)
Tech #8. Online Referenceware
(e.g., the (Encyclopedias, Dictionaries, etc.)
Encyclopedia of Life, Encyclopedia of Earth, etc.)

Tech #9. Shared Online Video.
(Videos of the Periodic Table, Univ of Nottingham)

March 13, 2012
Educational Videos: TED-Ed
http://education.ted.com/

Videos for clinical education
(Sungkyunkwan University School of Medicine,
www.mededu.or.kr)

TV Lesson
(expert videos)

Tech #10. Simulations
**Tech #11.** Video games may improve brain power in older adults

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


**Tech #12.**

Vlogs (Blogs with video)

**Tech #13.** Video-Based Online Discussions (e.g., Flipgrid; see http://flipgrid.com/#429f88c5)

**Tech #14.** Audio and Voice Feedback

Vocaroo: http://vocaroo.com/

ACSM: http://vocaroo.com/i/s0ttwy2B8qIA

**Tech #15.** Web Conferencing Using Google Hangouts for Class

(January 2013)
Jabber Web Conferencing

December 2013

Guest Speakers
Designing a New Learning Environment
Professor Paul Kim, Stanford University
http://venture-lab.org/education/lectures/45

Tech #16. Videoconferencing
(first demo in 1964 at the World’s Fair; use increased in 2003)

Tech #17. Virtual Mentoring and Tutoring

Tech #18. Online Learning
Why I spent 10th grade online. Sophia Pink, Washington Post, August 23, 2013

Tech #19. Online Testing
(Quizlet; http://quizlet.com/)
**Tech #20. Massive Open Online Courses (MOOCs).**
(Courses from Statistics to Physics to Biology to ???)

**August 5, 2013**
Free Online Higher Education: 5 Best MOOCs
By Kaman Sankaran, Epoch Times
http://www.thepoephisimes.com/2296405-best-moocs-for-free-online-higher-education/

MOOC at UPenn; Recession Fuels Explosion of Online Learning
http://www.youtube.com/watch?v=52sJ9M4O5ow

**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).

**Master’s Degree Is New Frontier of Study Online,**
By Tamar Lewin
http://chronicle.com/article/MOOCs-May-Not-Be-So-Disruptive/140965/

This Holiday Season, Learn on the Go with the New Coursera App for iOS!
Coursera Blog, December 8, 2013
http://blog.coursera.org/post/69518555384/this-holiday-season-learn-on-the-go-with-the-new

**Tech #21. Wikis: Collaborate and Crowdsourcing Content**
Tech #22. Twitter (microblogging)

Tech #23. Facebook Fan Pages (class, department, university collaboration sites)

Tech #24. Adventure Learning

Tech #25. Online Language Learning (e.g., 300,000 people per month listening to ChinesePod, co-hosted by Jenny Zhu, John Pasden, and Ken Carroll)

Tech #26. Virtual Worlds and Augmented Reality (Class Meetings with Experts in Virtual Worlds)

ABC News, Google I/O Conference: Project Glass Prototype For Sale
http://abcnews.go.com/Technology/google-project-glass-prototypes-offer-class-meetings/story?id=16663176
Tech #28. Video Walls of Experts (IQ Wall)


Tech #30. Interactive News and Science Globes, January 7, 2013, Digital
Globes Offer a Dynamic Vision, NY Times, Mark Vanhoenacker

Any Questions?

😊 Slides at: TrainingShare.com
😊 Papers: PublicationShare.com
😊 Book: http://worldisopen.com/
😊 Email: curt@worldisopen.com