Stretching the Edges of Technology-Enhanced Teaching: From Tinkering to Tottering to Totally Extreme Learning

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Sept. 2011 (CLO): Learning is More Tech-Driven
New Technologies = New Delivery Methods...

Learning is More Social

Audience Poll:
Has learning technology has ever transformed your life.

Change not possible as an accountant...
(Life as a CPA, 1981-1986)

Decided to Read, Read, Read...
(e.g., People like Albert Bandura, Howard Gardner, Roger Schank, Elliot Soloway, etc.)
Took Correspondence & TV Courses (thanks to Bob Clasen and Charles Wedemeyer, the University of Wisconsin)

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

February 18, 2002
Talking Dictionaries for Rare Languages
The Wall Street Journal

Feb. 21, 2012: Learning is More Flipped
Rethinking Learning with Salman Khan
Stanford Graduate School of Business

April 29, 2012: Learning is More Open
Open Education’s Wide World of Possibilities,
Chronicle of Higher Education, Katherine Mangan

May, 2012
Robots teaching English and Virtual Worlds
Dr. Meeyong Kim, Dajeon, Korea
May 4, 2012
Flexible displays bend what’s possible for computers,
Jon Swartz, USA Today
http://mediagallery.usatoday.com/Flexible+screen+displays/G3657,A12064

Components of the wrist-worn display prototype developed at HP Labs are shown in this illustration. When completed, the device will incorporate a working flexible display powered by solar cells.

May 5, 2012
Shaq earns doctorate degree
http://www.youtube.com/watch?v=Szj6uQnBdjo

ABC News, Google I/O Conference: Project Glass Prototype For Sale

The Web of Learning

The World is Open... It is very open!
Audience Participation!

1. WE
2. ALL
3. LEARN!!!

We are entering a jumping off point...

From Tinkering to Tottering to Totally Extreme Learning...

Tinkering Ideas

Tinker #1. Timeline Tools (e.g., MLK Memorial Timeline)


Tinker #2. Tracking the Life of a Scientist (e.g., Brian J. Ford, independent scientist)


Tinkering #2.
Tracking the Life of a Scientist (e.g., Brian J. Ford, independent scientist)

http://www.youtube.com/embed/-yMf7kHg5qc?rel=0
**Tinker #3. Online Art**  
Google Art Project, NBC Nightly News, April 3, 2012  

**Tinker #4. Using Online Encyclopedias**  
(e.g., the Encyclopedia of Earth: [http://www.eoearth.org/](http://www.eoearth.org/))  

**Tinker #5. Educational Videos: TED-Ed**  
[http://education.ted.com/](http://education.ted.com/)

**Tinker #6. Timelines with Oral Histories, Slavery and the Making of America Time and Place**  

**Tottering Ideas**

**Tottering 1. Global Class Videoconferencing and Remote Lands**  
Totter #2. Crowdsourced Q&A
April 1, 2012, Piazza: https://piazza.com/

Totter #3. Lessons on iPad
(e.g., ShowMe: http://www.showme.com/)

Totter #4. Student Collaborative Knowledge Building and Sharing
(e.g., Popplet: http://popplet.com/)

Totter #5. Using Google Hangouts for Class
(January 2013)

Totter #6. Shared Online History Videos
(e.g., "History for Music Lovers" with over 50 songs including:
Trojan War “Tainted Love” by Soft Cell; Charlemagne “Call Me”
by Blondie, Cleopatra, Napoleon, Shakespeare, the Vikings)

We are entering a jumping off point...
You Want Totally Extreme?

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


Totally Extreme #1. Adventure
Learning about the Environment
(e.g., North of 60, GeoThentic, Earthducation, see Aaron Doering, Chasing Seals; http://chasingseals.com)

Totally Extreme #2. iPod Learning from MIT OCW
(e.g., Wendy Ermold, University of Washington)

Totally Extreme #3. MBAs from War Zones…!

Totally Extreme #4. Kids Learn Online, Teach Online
(e.g., the World’s Youngest Teacher; Adora Svitak)

Totally Extreme #5. An 80-Year-Old Graduate With an Online Marketing Degree Kept His Promise, The Texas Tribune, December 9, 2012

Totally Extreme #6. Online Language Learning and Conversations (e.g., PalTalk, iTalki, OpenLanguage, Babbel)

Totally Extreme #7. Virtual Mentoring South African teens get virtual mentoring from all over the world, By Danielle Berger, CNN, January 14, 2011

Totally Extreme #8. February 2012 Pocket School and SMILE: Stanford Mobile Inquiry-based Learning Environment

http://www.nytimes.com/2012/03/11/nyregion/a-teenage-master-of-languages-finds-online-fellowship.html?_r=1&pagewanted=all

Timothy posts videos of himself speaking several languages on YouTube.

Extreme Learning Website
www.extreme-learning.com

Sample HOPES Stories
DREAMS: Design Research for an Engaging and Active Mobile System

Who is Content Now? And Who is Stretched Now?
Website: www.Extreme-Learning.com
Slides at: TrainingShare.com
Book: http://worldisopen.com/
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