"Stretching the Edges of Technology-Enhanced Teaching: From Tinkering to Tottering to Totally Extreme Learning"
Curtis J. Bonk, Professor, Indiana University
cbonk@indiana.edu
http://mypage.iu.edu/~cbonk/

Dog Gets MBA.
Unmuzzling Diploma Mills: Dog Earns M.B.A. Online
By Marc Perry

June 2010
Clay Shirky, NYU: How cognitive surplus will change the world, TED
http://www.ted.com/talks/Clay_Shirky_how_cognitive_surplus_will_change_the_world.html

September 5, 2010
Open Source goes to High School (Utah)
http://www.youtube.com/watch?v=s0vve-13x6k
Open Source goes to High School

Open High School of Utah
DARKE WILLIAMS, Superintendent of the
Open High School of Utah
February 16, 2011
Bill Clinton in Surprise Talk on Tech: It's the Institutions, Stupid, David Zax, Fast Company

March 13, 2011
Online Public: University Plans to Turn Indiana Dropouts Into Graduates, Chronicle of HE, Eric Kelsner

March 16, 2011
California Student from Japan Finds Family Alive on YouTube

April 12, 2011
NCTM Conference Session, Free Online Degrees: iSMART: Integration of Science, Mathematics, and Reflective Teaching (iSMART), University of Houston

But I am not Content!!!
Shovelware
May 24, 2010
Author Nicholas Carr, The Web Shatters Focus, Rewires Brains, Wired
http://www.wired.com/magazines/2010/05/ff-nicholas_carr/

August 9, 2010
Bill Gates Predicts Technology Will Make 'Place-Based' Colleges Less Important in 5 Years, By Jeff Young, Chronicle of HE

September 15, 2010
Study: Online learning might be less effective for some, eSchool News, Dennis Carter

December 30, 2010
The year we stopped talking
Sharon Jayson, USA Today
http://www.usatoday.com/lifestyle/more/2010/12/30/jayson-stop-talking/30750730/1

January 23, 2011
As the Web Goes Mobile, Colleges Fail to Keep Up, Chronicle of Higher Ed, Josh Keller
http://chronicle.com/arts/technology/012311.html

February 17, 2011
US internet access still a problem; Gov't says up to 10 pct in US lack good Internet, Joelle Tessor, AP Technology Writer
February 27, 2011
Actually Going to Class, for a Specific Course? How 20th-Century, New Learning Technologies Prompt a Rethinking of Traditional Course Structure, Chronicle of HT, Jeffrey R. Young

16. Learning Technology Trends

September 15, 2010
Timeline of Technology for Teaching, NY Times

1. Inexpensive Laptops and Netbooks

2. Online Language Learning
January 27, 2010 and Feb 5, 2010: The Web Way to Learn a Language, NY Times, ERIC A. TAUB (e.g., EnglishCentral, iTalki, Babbel, Babbel)

3. Tablet Computers Hit (iPad)
April 10, 2010: Seton Hill Univ, 2,160 students an iPad and freshmen a 13-Inch MacBook laptop
Feb 1, 2011: An Android Tablet Made Just for School, David Zax, Fast Company

Samsung: Galaxy Tab has log up on Apple iPad, By Stephanie Sherwood, CNET, September 3, 2010
4. Mobile (e.g., iPad) News
August 10, 2010: Flipboard pretties up social-media updates; Facebook statuses and tweets feed into magazine-like format in free app for iPad; Jefferson Graham, USA TODAY
February 1, 2011: A peek at The Daily's iPad news app (~$40/year); CNN Tech, Mark Millian

5. Pocket Dictionaries
September 9, 2010: Campus Tech in China: Impressions From 3 Campuses, Jeff Young
I didn't see any laptops in use here, though the three foreign exchange students I sat with proudly produced their favorite education gidgets: portable electronic dictionaries that can bust down walls in Chinese, Korean, English, and Japanese. Language learning has the best use of technology here, according to some professors I talked to this week, and electronic stores sell what seems like hundreds of variations of digital dictionaries.

6. Digital Textbook Projects (Korea),
Sept. 21, 2010: What South Korean Schoolchildren Can Teach Colleges About E-Textbooks; By Jeff Young, Chronicle of HE. Korea E-Learning Week, Coex, Seoul. Sept. 16-17, 2010

7. Mobile Music
December 10, 2010: Virtual Bands, Choirs, Singers, etc. iBand Rocks Tunes on iPads and iPhones; PetGadget.

8. Video Calling/Conferencing/Webcaming
December 20, 2010: Skype for iPhone adds two-way video calling, CNet Reviews

9. Social Networking Gaming
December 24, 2010: CityVille 56.8 million daily users, FarmVille 16.4 million, CityVille 61.7 million monthly users, FarmVille 58.8 million users. Mashable.
“CityVille is now Bigger than FarmVille”
10. E-Book Readers
January 28, 2011: Amazon: Kindle Books Finally
Eclipse Paperbacks, Doug Aamoth
http://www.amazon.com/1066/Book-Release-1066/July-2011-
Release-Dates/dp/0661951686

Whether a surge in e-book sales can be sustained and what effect it could have on traditional bookstores remains to be seen.

12. New Interfaces
February 18, 2011: Telekinesis 2.0, David Zax, Fast Company

13. Artificially Intelligent Computers
February 18, 2011: Watson dominates at "Jeopardy!" — but what else can it do? As IBM seeks new uses, man still has edge over machine, Dan Fergano, USA Today.

14. Group Video Chat, February 28, 2011:

SocialEyes delivers group video chat

15. iPad 2, March 2, 2011: Steve Jobs' surprise appearance a 'big deal', CNN Tech, Mark Millan, March 2, 2011,

16. Mobile Tutors, April 7, 2011: Tutor.com Releases First Ed App that Connects Students to an Expert Tutor

Tutor.com To Go™ Releases the First Education App that Connects Students to an Expert Tutor
Today we have the Web 2.0

Elements of the Web's Next Generation

Some Educational and Psychological Heroes:
John Dewey, Seymour Papert, John Seely Brown, Ivan Illich, Stephen Heppell, Henry Jenkins

Our New Heroes are not Theoretical or Psychological

Life in the Cloud...?

Tinkering, Tottering, or Totally Extreme?
Tinkering

Tinker #1. Reading from Open Access Journals (e.g., PLOS)

Tinker #2. Webcast Lectures
(Tegrity, Echo360, Mediasite, etc.)

Tinker #3. Timeline Tools
(e.g., SIMILE from MIT (http://simile.mit.edu/), Learning Tools from UBC)

Tinker #4. Online Literature Search
(Class Google Jockeys)
(links to text, soundtracks, video clips, etc.)

Tinker #5. Video Animations and Self-Testing
Tinker #6. Anchored Instruction with Shared Online Video

Tinker #7. Pubcasts. (videos of authors of scientific papers and science; e.g., SciVee)

Tinker #8. Collaborative Groups (Google Docs, Ning, Google Groups, MSN Groups, Yahoo Groups)

Tinker #9. Track Life of a Scientist or Famous People (e.g., Brian J Ford, independent scientist)

Tinker #10. Online Portals of Rich Data
United Nations Opens World Digital Library, Turning the Pages from the British Library, etc. (history, culture, literature, writing, art, etc.)

Tinker #11. Educational Simulations
Tinker #12. Expert Blog and Podcast Reflections

Trotter #1. Bridges to World of Expert and Practitioners
(e.g., Watch or Listen to Online Conferences, Expert Interviews, blogs, chats, etc.)

Trotter #2. Famous Expert Via TED (shared online video), Fast Company, Anya Kamensky, September 1, 2010

Trotter #3. Real World Problems (PBL online): Real-time Cases

Trotter #4. Class Synchronous Sessions and Archives (Breeze/Adobe Connect Pro, Elluminate, WebEx, Dim Dim)
Totter #5. Global Class Videoconferencing

Totter #6. Global Class Collaboration and Problem Solving (e.g., ePals, iEARN, and World Class)

Totter #7. Asynchronous and Synchronous Events (e.g., William and Mary, March 3, 2011)

Totter #8. Course Announcements (e.g., Teaching with Twitter; Course announcements and following people (e.g., microblogging)

Totter #9. Wikibooks, Wikipedia editing, wiki syllabi, wiki glossaries (Ron Owston, York University, Toronto)

Totter #10. Student YouTube Products
http://www.youtube.com/watch?v=34vSkyyZ4sQ
http://www.youtube.com/watch?v=QRE6_eJF0n8
http://www.youtube.com/watch?v=Ij21wep9uP0
Totter #11. Podcast Productions and Virtual Performances for students of pronunciation class (e.g., Tzu-Su Chen, Taiwan)

Totter #12. Video Blogging

Totally Extreme Learning

Totally Extreme #1. Live Science (Hear live allows people to watch expeditions live & listen to scientists in control rooms as discoveries made)

Totally Extreme #2. Immediate Science (e.g., Recent fossil of Ida, a transitional species. 47-Million-Year-Old Fossil the Missing Link? (May 20, 2009))

Totally Extreme #3. Armchair Archaeology (e.g., UCLA Summer Digs Program)
**Totally Extreme #4. Adventure Learning, GeoThentic, Earthducation, Polar Husky, GoNorth (Aaron Doering, Univ of Minnesota), Impossible to Possible, Ray Zahab**

**Totally Extreme #5. Teen Solo Sailing.**
May 2010, Jessica Watson became the youngest person ever to sail solo, non-stop and unassisted around the world.

**Abbey Sunderland's blog**

**Totally Extreme #6. Scientist Blog**
Reflections (The LAST OCEAN Website and The Last Ocean Project; Cassandra Brooks)

**Totally Extreme #7. Adventure Learning (cars and bikes)**
Dan Grec and Mark Beaumont

**Totally Extreme #8. South African teens get virtual mentoring from all over the world, By Danielle Berger, CNN, January 14, 2011.**


**Totally Extreme #9. International and Global Education and Competitions**
(e.g., Global Game Jams, online role play, Global Videoconferencing)

Global Game Jam
**Totally Extreme #10. Learn Anytime, Always On/Mobile.** Will Technology Kill the Academic Calendar? Online, semesters give way to students who set their own schedules. Marc Perry, Chesswood at Higher Ed, October 20, 2010

Robert Johnson, who championed the open-format Learn Anytime program at a two-year college in Louisville, Ky., checks students’ e-mail while waiting for a flight. “Everything I need to do today, I can do on my phone,” says Robert Johnson...He often grades papers and communicates with students from a cafe near his home.

**Totally Extreme #11. Pocket School and Videoconferencing in Developing World**
(Paul Kien, Stanford, Rwanda, August 2010. Kigali Institute of Education linking up with universities in India and Cameroon through Satellite Internet video conferencing system. They were discussing Java programming.)

**Totally Extreme #12. Telepresence and Teleportec Systems**
(e.g., Cisco and HP)

**Poll #1: How many ideas did you get?**
1. 0 if I am lucky.
2. Just 1.
3. 2, yes, 2...just 2!
4. Do I hear 3? 3!!!!
5. 4-5.
6. 5-10.

**Any Extreme Questions and Comments?**

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