I am Not Content: The Future of Education Must Come Today...!!!

Curtis J. Bonk, Professor, Indiana University
cjbonk@indiana.edu
http://mypage.iu.edu/~cjbonk/

The End of Shovelware?

Audience Poll #1: Has learning technology ever transformed your life.

I’m Happy...Are you Happy?

May 10, 2013
10 ed-tech tools of the 70s, 80s, and 90s
eSchool News, Meris Stansbury
http://www.eschoolnews.com/2013/05/10/10-ed-tech-tools-of-the-70s-80s-and-90s/print/
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)

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

February 20, 2013
Star Trek-like holodeck may be closer to reality than you think
Matt Hartley, Financial Post, Canada

Knowledge Navigator (1987)
Apple Computer
I. Learning is More Personal
iPotty Aims To Entertain Toddlers During Toilet Training, Mashable, Kate Freeman
(January 10, 2013)
http://mashable.com/2013/01/10/ipotty/

II. Learning is More Video-Based
Adora Svitak, WFP Youth Representative - 2013
ECOSOC Youth Forum, March 27, 2013
“Shaping tomorrow’s innovators: Leveraging science, technology, innovation and culture for today’s youth”, Statement by the World Food Programme Youth Representative, Ms. Adora Svitak at the 2013 ECOSOC Youth Forum.

Experts on Demand (e.g., from Lynda.com)

April 18, 2013
Quincy Jones goes high-tech for the lowdown on music, Marco della Cava, USA TODAY, Playground Sessions
October 27, 2012
Travel for Office Hours
Chuck Severance, (U Michigan/Coursera) in Barcelona
http://www.youtube.com/watch?v=dJzhvm5v8TI

October 15, 2012
Reusable Khan
Lacking Teachers and Textbooks, India's Schools Turn to Khan Academy to Survive, NY Times, Anupama Chandrasekaran

Students at Sree Karpagavalli Vidhyalaya school in Chennai, Tamil Nadu, watching Khan Academy math videos.

Segment Video Anchors
(e.g., TubeChop of V-PORTAL: Video Primers in an Online Repository of e-Teaching and Learning; “Wikibooks Hooray for Us”)
http://www.tubechop.com/watch/378752

III. Learning is More Mobile

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

V. Learning is More Massive
April 16, 2013 (NovoEd)
New MOOC Provider Says It Fosters Peer Interaction
Chronicle of Higher Education, Jake New

April 27, 2012
Introduction to Blackboard/ CourseSites MOOC, With Dr. Curt Bonk: “Instructional Ideas and Technology Tools for Online Success” (4,039 now enrolled)
http://www.youtube.com/watch?v=r8NeE0uPTOQ&feature=youtu.be

June 25, 2012
Massive Open Online Courses (MOOCS)
A Conversation With Bill Gates About the Future of Higher Education, Chronicle of HE, Jeffrey R. Young

April 18 and Sept 19, 2012:
Coursera (MOOC) Partnerships
(https://www.coursera.org/)

April and May 2013
Major Players in the MOOC Universe,
Chronicle of Higher Education, Jake New
VI. Learning is More Flipped
One Man, One Computer, 10 Million Students: How Khan Academy Is Reinventing Education, Forbes, November 19, 2013, Michael Noer
The One World Schoolhouse (Twelve, Oct. 2, 2012)

VII. Learning is More Empowering
iPad gives voice to kids with autism
Supraja Seshadri, CNN, May 14, 2012

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

IX. Learning is More Collaborative
Collaboration and Discussion in Google Hangouts or with iPad, Jan. 28, 2013
(Carrie Gong from Beijing Normal University)

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

XI. 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
http://designbuildsource.com.au/design-for-students-with-students
XII. Learning is More Ubiquitous
Flexible displays bend what’s possible for computers,
Jon Swartz, USA Today (May 4, 2012)

XIII. Learning is More Instantaneous
April 9, 2013
Computer fashions face social test: Can wearable computers fit in? Scott Martin, USA Today

March 13, 2013
Will Google Glass find a home in healthcare?
HER Intelligence, Jennifer Bresnick
(i.e., magnify moles or injuries, see vital signs, live stream surgeries, access previous PT sessions, access research and drug info, etc.)

June 29, 2011 and July 6, 2012
Google+ Hangouts and Facebook Video calling

XIV. Learning is More Global
(Book Review by Dr. Mimi Miyong Lee: Ed Tech Magazine, May-June 2013)
(e.g., TakingItGlobal (TIG), RoundSquare, etc.)
RoundSquare (http://www(roundsquare.org) and
Taking it Global (http://www.tgweb.org)

Learning is Changing the World
(Book Review: Ed Tech Mag, May-June 2013)
XV. Learning is More Web-Based
April 15, 2013
Google boss: Entire world will be online by 2020, Doug Gross, CNN

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

Growth Online in Higher Education in the USA

April 20, 2013
Two Cheers for Web U!
A. J. Jacobs, New York Times
Poll #2: Is this a revolution in education today?
A. Yes…
B. No…

My dog is content…

I am not Content!!!

May 24, 2010
Author Nicholas Carr, The Web Shatters Focus, Rewires Brains, Wired
http://www.wired.com/magazine/2010/05/ff_nicholas_carr/

September 27, 2012
The Crisis in Higher Education, Nicholas Carr, Technology Review

Data from Institute of Education Sciences and Pew Research Center.
Who needs online and blended learning?
(Katrina, August 2005; Ike, Sept 2008; Irene, August 2011; Isaac, August 2012)

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

January 16, 2013
Carmen Ortiz and Stephen Heymann: accountability for prosecutorial abuse
Glenn Greenwald, The Guardian
http://www.guardian.co.uk/commentisfree/2013/jan/16/ortiz-heymann-swartz-accountability-abuse

February 5, 2013
Bioelectricity: A Quantitative Approach, Duke University’s First MOOC

February 27, 2013 (Inside HE)
Grade My Course, CourseTalk
(i.e., Yelp for Ed)
http://www.grademycourse.com; http://coursetalk.org/

May 6, 2013
Faculty Backlash Grows Against Online Partnerships
Chronicle of Higher Education, Steve Kolowich
http://chronicle.com/article/Faculty-Backlash-Grows-Against/139049/
May 10, 2013
Debate Over MOOCs Reaches Harvard
Chronicle of Higher Education, Dan Berrett

The Web of Learning

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

I’m an Armchair Indiana Jones...

Framework #1: WE-ALL-LEARN:
Ten Forces that Opened the Learning World

1. WE
2. ALL
3. LEARN!!!
**Sleepy U?**

Ok, Million Dollar Question: What words come to mind when I say that I want to motivate learners?

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**Motivation Research Highlights**  
(Jere Brophy, Michigan State University)

1. Supportive, appropriate challenge, meaningful, moderation/ optimal.
2. Teach goal setting and self-reinforcement.
4. Novelty, variety, choice, adaptable to interests.
5. Game-like, fun, fantasy, curiosity, suspense, active.
6. Higher levels, divergence, dissonance, peer interaction.
7. Allow to create finished products.
8. Provide immediate feedback, advance organizers.
9. Show intensity, enthusiasm, interest, minimize anxiety.
10. Make content personal, concrete, familiar.

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**Intrinsic Motivation**

“...innate propensity to engage one’s interests and exercise one’s capabilities, and, in doing so, to seek out and master optimal challenges (i.e., it emerges from needs, inner strivings, and personal curiosity for growth)


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**Framework #2: TEC-VARIETY for Online Motivation and Retention**

1. Tone/ Climate: Psych Safety, Comfort, Belonging
2. Encouragement, Feedback: Responsive, Supports
3. Curiosity: Fun, Fantasy, Control

4. Variety: Novelty, Intrigue, Unknowns
5. Autonomy: Choice: Flexibility, Opportunities
6. Relevance: Meaningful, Authentic, Interesting
7. Interactive: Collaborative, Team-Based, Community
8. Engagement: Effort, Involvement, Excitement
9. Tension: Challenge, Dissonance, Controversy
10. Yields Products: Goal Driven, Products, Success, Ownership

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**Examples of TEC-VARIETY**
1. **Tone/Climate: A. React to Maps**
   The happiest and saddest states according to Twitter
   Heather Kelly, CNN Tech, February 19, 2013

2. **Encouragement, Feedback, etc.: A. Voice Feedback**
   [http://vocaroo.com/i/s0cP7y4AnatF](http://vocaroo.com/i/s0cP7y4AnatF)

3. **Curiosity, Fun: A. Something in the News**
   Fauja Singh, 101, finishes last race, February 24, 2013

1. **Tone/Climate: B. Share Visuals**
   (e.g., Panoramio, [http://www.panoramio.com/](http://www.panoramio.com/))

2. **Encouragement, Feedback, etc.: B. Quizlet (online quiz tools)**

3. **Curiosity, Fun: B. History for Music Lovers**
   The French Revolution (“Bad Romance” by Lady Gaga)
   Trojan War (“Painted Love” by Soft Cell)
   Charlemagne (“Call Me” by Blondie)
   The Vikings (“Personal Jesus” by Depeche Mode)
   The Crusades (“Eyes Without a Face” by Billy Idol)
   Constantine (“Come On, Eileen” by Dexy’s Midnight Runners)
   [http://www.youtube.com/user/historyteachers](http://www.youtube.com/user/historyteachers)
4. Variety, Novelty, Intrigue, Unknowns:
   A. Class Sync Collaboration and Discussion in Google Hangouts
      (Spring, 2013)

4. Variety, Novelty, Fun:
   B. Random Lists (Random.org—clocks, coins, playing cards, dice, integers, passwords, jazz scales, lists, sequences, etc.)

5. Autonomy, Choice:
   A. Online Resource Search
      (Class Google Jockeys)
      (links to text, soundtracks, video clips, etc.)

   B. Web Exploration Assignments
      1. Complete Works of Charles Darwin Online: http://darwin-online.org.uk/
      4. Einstein Archives Online: http://www.alberteinstein.info/
      7. iBerry (Open Courseware Directory): http://iberry.com/

5. Autonomy, Choice:
   A. Demonstrate, Explore, and Share Websites
      Commonwealth of Learning, March 2013

   B. Online Course Development for Teacher Education in Jamaica

Poll #2: (Tone, Encouragement, Curiosity, Variety, Autonomy)
   Any light bulbs going off in your head so far...? If so, where?
   A. Yes definitely
   B. Maybe
   C. No
6. Relevance, Meaningfulness:
A. Design Multimedia Glossaries
Ozgur Ozdemir, December 2012
http://r685glossary.shutterfly.com/
Umida Khikmatillaeva, Dec. 2011, P540
http://learningplanet.shutterfly.com/

6. Relevance, Meaningfulness:
B. Design Reusable Web Resources
Umida Khikmatillaeva, Creating a Global Classroom
World is Open for Language Learners
http://hikmatnoma.wix.com/globalclassroom#!home/c2df

7. Interactive, Collaborative:
A. Collaboration and Discussion in Google Hangouts
(January 29 and February 25, 2013)

7. Interactive, Collaborative:
B. Negotiate Meanings Online
e.g., PiratePad: http://meetingwords.com/
MeetingWords is a simple text editor for the web. Your text is saved on the web, and more than one person can edit the same document at the same time. Everybody’s changes are instantly reflected on all screens. Work together on meeting notes, brainstorming sessions, homework, team programming and more!

7. Interactive, Collaborative:
C. Organizing Online Teams
17,880 students. I haven’t met CSE. I am shocked to see students from places where Internet is very limited. You will find students from even Zanzibar!!! Many teams are formed and they meet CSE in the region where they live.
http://venture-lab.org/education/

8. Engagement, Effort:
http://www.guardian.co.uk/world/interactive/2011/mar/22/middle-east-protest-interactive-timeline
8. **Engagement, Effort:**

**B. Life on Timeline**

*How Jimmy Wales’ Wikipedia Harnessed the Web as a Force for Good, Ted Greenwald, March 19, 2013, Wired Magazine*

[Image of a Wikipedia page]

http://www.wired.com/wiredenterprise/2013/03/jimmy-wales-wikipedia/2/

**C. Visualizing Careers**

*Harrison Ford takes the field in ‘42’
Scott Bowles, USA Today, April 11, 2013
http://www.usatoday.com/story/life/movies/2013/04/10/harrison-ford-jackie-robinson/2001783/

**D. Timelines with Oral Histories, Slavery and the Making of America**

*Time and Place, PBS*

http://www.pbs.org/weta/slavery/timeline/1857.html

**E. Visualizing Emancipation**

*(June 12, 2012, Chronicle of HE, Angela Chen, Interactive Map Traces Slaves’ Path to Emancipation)*

http://dsl.richmond.edu/emancipation/

9. **Tension, Challenge, etc.:**

**A. Cage Match or Debate**

*MOOCs at SXSWedu (Curt Bonk & Chuck Severance)*


**B. Final Four-Like Competitions**

*(i.e., Math March Madness, Greg Toppo, March 26, 2013, USA Today)*

http://www.stargazette.com/article/20130326/NEWS02/303260008/Fibonacci-Final-Four-Math-March-Madness-coming
9. Tension, Challenge, etc.:
C. Decision-Making Scenarios (e.g., Articulate Storyline)

9. Tension, Challenge, etc.:
D. Peer Ratings on Final Projects (Note: from Paul Kim’s MOOC, Stanford)

10. Yields Products, Goals:
A. Student YouTube Products
Qi Li: R685 Gangnam Style, December 2012
http://www.youtube.com/watch?v=7Q429lqxZaU&feature=youtu.be

10. Yields Products, Goals:
B. Final Product Video Summaries (on IQ Wall, April 22, 2013)
Piercarlo Abate
http://www.youtube.com/watch?v=_-TURzHO0aU

10. Yields Products, Goals:
C. I Done This, Milestone Planner, and 43 Things

Commitments:
Stop and Share:
Which principle(s) of TEC-VARIETY will you use?
Tone/Climate
Encouragement, Feedback
Curiosity
Variety
Autonomy
Relevance
Interactive
Engagement
Tension
Yields Products
From Tinkering to Tottering to Totally Extreme Learning...

Tinkering


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) https://www.youtube.com/user/tellymonitor#p/a/u/1/LhGeApsKjasr http://www.labnews.co.uk/news/prehistoric-revolution/ http://www.youtube.com/watch?v=ihjRv4PHCkxTr4tE

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 (https://connect.iu.edu/p4bytsoronh/)

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

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.
iPod Learning from MIT OCW
(e.g., Wendy Ermold, University of Washington)
Totally Extreme #2.
Remote Animal Streaming
Remote Maine puffin colony up close on HD web cam
Clarke Canfield, The Stateman, June 27, 2012
This still frame from streaming online video, provided by explore.org, the Annenberg Foundation and the National Audubon Society, shows puffins on the shore of Seal Island, Maine, Wednesday, June 27, 2012. The island is the habitat for the largest puffin colony in the U.S.

Totally Extreme #3.
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

Totally Extreme #4.
MBAs from War Zones...!

Totally Extreme #5. Blog Adventures
Tracing the fate of Algal Carbon Export in the Ross Sea, Antarctica
TRACERS: The NBFL3-02 Cruise, February 12 to April 5, 2013
http://tracers-nbfl302.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.

Where are we headed?

1. Video Walls of Experts
2. Mobile Video Connections to Experts and Friends

3. Expert Access from Our Watches

4. Interactive Globes (e.g., NY Times Interactive Photo Globe)

6. Experts Apprenticeship from the Departed


http://today.duke.edu/2013/03/bonkobit

Stop and Share:
Three Words from Today’s Session!

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