Learning is Changing: MOOCs, The Open World, and Beyond
Curtis J. Bonk, Professor, Indiana University
cjbonk@indiana.edu
http://mypage.iu.edu/~cjbonk/

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

The Problem with Learning Technology
Karen Wilcox, November 7, 2014, Chronicle of Higher Education

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

Poll #2: Read any good books lately?
The Innovators:
Walter Isaacson (2014)
http://books.simonandschuster.com/The-Innovators/Walter-Isaacson/9781476708690

Poll #3: Listen to the Radio Lately?
November 14, 2014
School lessons by radio in Sierra Leone, Liberia, IRIN (Humanitarian News and Analysis), MONROVIA/FRÉTOWN/DAKAR
http://www.pce.uw.edu/about/Leadership/
Poll #4: Turn on the TV Lately?
November 14, 2014 (2:25)
Why online ed disrupts the traditional model, Fareed Zakaria, GPS, CNN. On GPS, Stuart Butler & Anant Agarwal explain why students are drawn to online higher education: tuition debt & exciting new technologies

Poll #5: Read Your Email Lately?
January 15, 2015

April 23, 2015
The Catch in Arizona State’s Low-Cost Freshman Year Online: No Aid, Chronicle of Higher Education, Thomas Fisher

Anant Agarwal, the head of edX, which teamed up with Arizona State U. in the new project: “Our mission is to provide education to people who need it the most.”

Poll #5: Read Any Research Lately?
October 25, 2014
Opening the Curriculum: Open Educational Resources in U.S. Higher Education, 2014
I. Elaine Allen and Jeff Seaman

Looking to the Past…

1728: 1st correspondence course advertised Boston
(learn shorthand from Caleb Phillips thru weekly mailed lessons)
The First University Correspondence Course (University of London, External Program, 1858)
1728-1990s – Generally postal system based
1930s – phonograph and radio
1950s and 1960s – television
1970s and 1980s – VHS tapes
1980s and 1990s – DVD
Fall 2014, On Wisconsin
MOOC, Meet MORC (Massive Open Radio Course)
WHA, UW Madison, College of the Air, 1933,
Vocational Training dedicated to Agriculture,
and later Home Economics and Typing

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/

Took Correspondence & TV Courses
(thanks to Bob Clasen and Charles Wedemeyer, the University of Wisconsin)

Life as an accountant/CPA in a high tech company in the 1980s...

Fast Forward 30 Years...
“Anyone can now learn anything from anyone at any time.”

Thirty Ways Learning is Changing...
(i.e., it’s more informal, video-based, ubiquitous, collaborative, self-directed,
global, mobile, open, massive, etc.)
Learning is Technology Based
New Technologies = New Delivery Methods...

I. Learning is More Mobile
(e.g., mobile courses on smartphone)

April 2, 2015
Review: Samsung rises to challenge with Galaxy S6 and S6 Edge, Edward Baig, USA Today

April 9, 2015
I’ll Buy the Apple Watch, Ed Baig, USA Today

May 14, 2015
Smartphone separation anxiety: How bad is your nomophobia?, Today Health, Meghan Holohan
http://www.today.com/health/smartphone-separation-anxiety-how-bad-yours-t20786

Readers: Are we headed for a smartphone zombie apocalypse? CNN, Nicole Saidi, October 4, 2012
II. Learning is More Flipped
January 7, 2015
When a Flipped-Classroom Pioneer Hands Off His Video Lectures, This Is What Happens, Jeffrey R. Young, The Chronicle of Higher Education
http://chronicle.com/article/When-a-Flipped-Classroom/151031/

A student watches a video of Norman Nemrow’s accounting class. Mr. Nemrow started the video lectures nearly 15 years ago at Brigham Young U. He is now retired, but students still watch him on the screen.

III. Learning is More Video-Based
February 15, 2015
Lynda.com Excel Training, IU

Learning is More Video-Based
Online Learning Polyglots

IV. Learning is More Visual
September 22, 2014
110 Foot Engagement, Elliott Masie’s Learning 2014

V. Learning is More Touch Sensored
October 16, 2013
Corporate Classrooms: Adapting to Change
Chief Learning Officer, Frank Kalman
http://www.chronicle.com/article/Corporate-Classrooms/146447/

VI. Learning is More Game-Based
October 21, 2014
Sexy iPad Air 2 is fabulous but not a must upgrade, Edward Baig, USA Today
http://www.usatoday.com/story/tech/columnist/baig/2014/10/21/ipad-air2-fabulous-tablet-is-not-must-upgrade/17658295/
VII. Learning is More Immersive
April 2, 2015
The Quest to Put More Reality in Virtual Reality,
Review: Samsung rises to challenge with Galaxy S6 and S6 Edge, Edward Baig, USA Today

A technician uses virtual reality to test out new military hardware before it’s ever put into production.

VIII. Learning also is More Collaborative
March 26, 2014
Flat Connections: Welcome to Flat Connections - Learning about the world, with the world
http://www.flatconnections.com/

IX. Learning is More Social
October 24, 2014
Facebook launches Rooms app for anonymous sharing of interests, USA Today, Jessica Guynn

X. Learning is More Adventurous
Aaron Doering, Chasing Seals, TEDx
http://chasingseals.com/

XI. Learning is More Direct from Experts
February 2, 2015
Here Comes Professor Everybody: The 'sharing economy' meets higher education,
Chronicle of Higher Education, Jeffrey R. Young
http://chronicle.com/article/Here-Comes-Professor-Everybody/151445/?cid=at&utm_source=at&utm_medium=en

Kevin deLaplante, an associate professor at Iowa State U., makes an average of $2,500 per month teaching from his home studio (above) on sites like Udemy.
XII. Learning is More Synchronous
Dubai to Puerto Rico (Edgar Leon)
https://www.youtube.com/watch?v=Imxw0YwTh2Y&list=UUClhOjnvl1pEXd9Skv

May 28, 2015
World Bank Institute workshop on e-learning to finance people in Zhengzhou city, China

XIII. Learning is More Digital
October 23, 2014
New Amazon Kindle is a Voyage into eReader luxury, USA Today, Edward C. Baig

XIV. Learning is Resource Rich
March 22, 2015
Madagascar marvel: Divers find fossils of extinct giant lemurs
Daisy Carrington, for CNN, March 22, 2015

XV. Learning is More Informal
October 13, 2013
A Dozen Ways To Promote Informal Learning
Chief Learning Officer, Saul Carliner
http://www.clomedia.com/articles/a-dozen-ways-to-promote-informal-learning

XVI. Learning is More Competency-Based
July 31, 2014
Hire Education: Mastery, Modularization, and the Workforce Revolution, Michelle R. Weise and Clayton M. Christensen, The Christensen Institute
http://www.christenseninstitute.org/publications/hire/
XVII. Learning is More On Demand
May 5, 2014
Mobile MOOCs: New platform challenges conventional MOOCs
ECampus News (https://coursmos.com/)

XVIII. Learning is More Hands-On
February 2, 2015
Makey Makey and the Kano
http://makeymakey.com/
https://vimeo.com/60307041

XIX. 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/

XX. Learning is More Communal
April 30, 2014
New Learning Hubs Locations Hosted by The New York Public Library and Seven Other Int’l Partners,
Coursera Learning Hubs
https://www.coursera.org/about/programs/learningHubs
Online Language Learning
(e.g., 300,000 people per month listening to ChinesePod, co-hosted by Jenny Zhu, John Pasden)
https://chinesepod.com/

Online Language Learning
SpanishPod
http://www.spanishpod101.com/

The iTalki
https://www.italki.com/

February 5, 2015
XXI. Learning is More Online
2014 Survey of Online Learning
Grade Level: Tracking Online Education in the United States, 2014, Online Learning Consortium (formerly Sloan-C), by I. Elaine Allen and Jeff Seaman

Learning is More Online
June 15, 2014
Starbucks offers workers 2 years of free college, CNN Money, Gregory Wallace
(from Arizona State online programs)

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

XIV. Learning is More Ubiquitous
September 23, 2014
Elliott Masie’s (i-Beacon; Bluetooth low energy proximity sensing)

XV. 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-apple-iphone-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

XVI. Learning is More Free
August 5, 2014
OpenStax Aims To Bring Free Digital Textbooks to High Schools,
David Nagel, THE Journal

May 28, 2015
Something in the news.
Ancient jawbones put new species on the human family tree, researchers say, Laura Smith-Spark, CNN
http://www.nature.com/nature/journal/v521/n7553/full/nature14448.html

May 28, 2015
New species from Ethiopia further expands Middle Pliocene hominin diversity, Nature
http://www.nature.com/nature/journal/v521/n7553/full/nature14448.html
January 8, 2015
Obama Plan Would Help Many Go to Community College Free
JULIE HIRSCHFELD DAVIS and TAMAR LEWIN, The New York Times

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

Want something FREE?
Introducing the “TEC-VARIETY” book...(Framework #1)
http://tec-variety.com/

Learning is More Self-Directed
iPod Learning from MIT OCW
(e.g., Wendy Ermold, University of Washington)

XXVII. Learning is More Self-Directed
February 2013
TED Talks
(Build a School in the Cloud; Self-Organized Learning Environments (SOLEs), TED Talk from Sugata Mitra
http://www.ted.com/talks/sugata_mitra_build_a_school_in_the_cloud.html

XXVIII. Learning is More Global
May 26, 2015
Exploring by the Seat of Our Pants
National Geographic, Jessica Shea
http://blog.education.nationalgeographic.com/2015/05/26/exploring-by-the-seat-of-our-pants/

Two men living in Dadaab, a refugee camp in Kenya, would watch lecture videos and take online quizzes at a nearby United Nations compound. (InZone)
XIX. Learning is More Open
(80-Year-Old WGU Texas Grad Keeps His Promise, November 30, 2012, Reeve Hamilton, Texas Tribune)

Nature, Openwords, etc.
http://www.openwords.com/
https://www.facebook.com/Openwords

Online Language Learning
DuoLingo
https://www.duolingo.com/

Audience Poll #6:
I. Who remembers what they were doing on 911?
II. Who remembers what they were doing on April 4, 2001?

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.”
Learning from Localized OER and OCW (e.g., OpenSource OpenCourseware Prototype System (OOPS), Lucifer Chu, Janitor of OOPS)

Global Health Initiatives
October 7, 2014
Online Mooc courses deliver Ebola health advice, BBC News, Sean Coughlan

Disinfecting a room in Monrovia, Liberia: Online courses are providing health advice to fight Ebola.

ALISON: A New World of Free Certified Learning
Mike Feerick, CEO & Founder, ALISON

AMP: A Tool for Characterizing the Pedagogical Approaches of MOOCs
Karen Swan, Scott Day, Leonard Bogle, and Traci van Prooyen
University of Illinois Springfield

Figure 3. Ratings Metaphors
OER and MOOCs in Africa: The AVU Experience
Griff Richards and Bakary Diallo, African Virtual University Nairobi, Kenya

It is estimated that only 6% of Africans can access post-secondary education. The development goal is set at 12% even though North America and Europe are somewhere around 45%. The gap is huge. This is not to say that African nations are not investing in post-secondary education. For example, Nigeria has been steadily building universities during the past couple of decades.

Employee to Employee Training
G2g (Googler to Googler) Training
Seven Ways to Corporate MOOC, Udemy blog, December 23, 2013, Shannon Hughes

Classes range from management and public speaking, to parenting and mountain climbing.

Building Talent Pipeline
Master’s Degree Is New Frontier of Study Online, August 17, 2013, The New York Times By Tamar Lewin

Classes range from management and public speaking, to parenting and mountain climbing.

September 18, 2013
MIT Will Offer MOOC Curricula, Not Just Single Courses, on edX, Steve Kolowich, Chronicle of HE

MIT Will Offer MOOC Curricula, Not Just Single Courses, on edX

By Steve Kolowich

MOOC companies are hardly universities unto themselves, but now a provider wants to make beyond offering one-off courses.

MIT, a division of the Massachusetts Institute of Technology that offers courses on the nonprofit edX’s platform, announced on Tuesday that it would soon offer special certificates to students who complete a prescribed sequence of massive open online courses from MIT. The sequences will be called Xseries.

October 6, 2014
High School Initiative

Open to view the full table of contents for this issue of the Chronicle's High School Initiative.

High School Initiative

7 WAYS THAT CORPORATIONS ARE USING MOOCs

Jima Ngei: "I had this unrelenting fear that this miracle of free access might evaporate soon."
September 16, 2013
Rwandan Degree Program Aims for a 'University in a Box', Chronicle of Higher Education, Megan O'Neil
http://chronicle.com/article/Rwandan-Degree-Program-Aims/141631/

Students attend an orientation session at Kepler, a new hybrid program in Kigali, Rwanda, which will use MOOCs and classroom time to help students earn competency-based associate degrees.

April 1, 2015
For a Better Flip, Try MOOCs
David Raths, Campus Technology
http://campustechnology.com/articles/2015/04/01/for-a-better-flip-try-moocs.aspx

Let’s Review:
Learning is Changing…
(i.e., it’s more informal, video-based, ubiquitous, collaborative, self-directed, global, mobile, open, massive, etc.)

Frank Basile, an aircraft technician, took an MITx course on circuits and electronics to increase his knowledge.

Joe Alfonso, a financial adviser from Oregon, is taking the online finance course as a "refresher."

May 17, 2015
So…Why Is The University Still Here?
TechCrunch, Danny Crichton
http://techcrunch.com/2015/05/17/why-is-the-university-still-here/

Well...there are problems...!

May 2013
1. Dropout (i.e., retention) Concerns
MOOCs @ Edinburgh 2013– Report #1
2. Lack of Engagement with Content

8 Things You Should Know About MOOCs
Chronicle of Higher Education, Jonah Newman and Soo Oh
http://chronicle.com/article/MOOCs-EdX/146901/

3. Issues of Age, Gender, and Course Type

Infographic: Global MOOC statistics
eCampus News, Meris Stansbury
http://www.ecampusnews.com/research/infographic-moocs-global-436/
Infographic: https://magic.piktochart.com/output/1747660-moocs

4. Issues of Impact and Elitism

Harvard and MIT Release Visualization Tools for Trove of MOOC Data
Lawrence Biemiller, Chronicle of Higher Education

5. Assessment and Credentialing Issues

Will a degree made up of Moocs ever be worth the paper it’s written on?
The University of the People can now hand out degrees to its online students – but will employers take them seriously?, Louise Tickle The Guardian
http://www.theguardian.com/higher-education-network/blog/2014/jun/12/moocs-viable-alternative-traditional-degree

6. Localization of Content

ocMOOCs and hMOOCs
Revolutionizing online education
Professor creates courses tailored to cultural differences, Korea JoongAng Daily, KIM BONG-MOON (longmoon@joongang.co.kr)

Professor Auh Yoon-il of Kyung Hee Cyber University explains the upcoming Kyung Hee MOOC 2.0 in an interview with the Korea JoongAng Daily at Kyung Hee University on Wednesday, (“one culture” or ocMOOCs and nMOOCs)
January 27, 2014
7. Complete Shutdown or Lock-out
Coursera Support Center, Why is my country blocked?
Online education platform Coursera blocks students in Syria and Iran, Wamba, Nina Curley

May 27, 2015
7. Some Learners are Silent
The Invisible Learners Taking MOOCs,
George Veletsianos, Inside Higher Ed
http://www.insidehighered.com/blogs/higher-ed-beta/invisible-learners-taking-moocs

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

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

May 26, 2015
But Much is Happening in China!
Edtech and MOOC Times in China
Michael Trucano On Tue, 05/12/2015, EduTech

Things are heating up!
http://routledge-ny.com/books/details/9781138807419/
MOOCs and Open Education Around the World
http://www.routledge-ny.com/books/details/9781138807419/

The Web of Learning

We are entering a jumping off point...

The World is Open for Learning!
Dr. Jiao Jianli, Professor of Educational Technology, Director of Future Education Research Centre, Deputy Dean of School of Information Technology in Education, South China Normal University
http://jiao.blogbus.com/

The World is very open!
(in Ho Chi Minh City, Vietnam, Wednesday March 12th)
Jumping off or tilting sideways...?

The World is very open!
(In Chulalongkorn University Monday, March 10th)

Audience Participation!

**WE ALL LEARN!!!**

**Mystery of MOOCs:**
Part III. 6 Types of MOOCs

MOOC Type #1.
Theory- or Trend-Driven MOOC

MOOC Type #2.
Remedial Course MOOC
MOOC Type #3. Degree or Program Qualifier or System Bottleneck MOOC

MOOC Type #4. Professional Development (PD) (practical) MOOC

MOOC Type #5. Conference MOOC (stretch a conference)

MOOC Type #6. Rotating, Repeatable, and Reusable MOOC

Mystery of MOOCs: Part IV. Ten MOOC Business Plans and Models

MOOC Business Model #1. Advertisers Underwrite Courses and Degrees
MOOC Business Model #2.
Small and Flexible Application or Enrollment Fee

MOOC Business Model #3.
Course Assessment Fee

MOOC Business Model #4.
Certificate Fee (with sticker)
https://twitter.com/drchuck/status/262423287373556009/photo/1

MOOC Business Model #5.
Free Entryway Course

MOOC Business Model #6.
Option for University Credit (full price)

MOOC Business Model #7.
Company Sponsored
MOOC Business Model #8.
Percent of First Year Salary
Recruiting MOOC
(companies pay for names and contact info of high performers)

MOOC Business Model #10.
Charge Fee for Student Data

Mystery of MOOCs:
Part V. Ten MOOC Instructor Guidelines

MOOC Instructor Guide #1.
Plan and Prepare
October 12, 2012
Radical rethink: how to design university courses in the online age, Paul, Wappett, The Conversation, Australia

MOOC Guide #2.
Designate Feedback Providers and Tasks (especially in Week One)

MOOC Guide #3.
Use Peer, Machine, Volunteer, and Self-Assessment
MOOC Guide #4. Address Participants by Geographic Region

MOOC Guide #5. Personalize Where Possible
Chuck Severance (U Michigan/Coursera) in Barcelona, Seoul, Manila, Melbourne, etc.
http://www.youtube.com/watch?v=JzNHvmSv8TI

MOOC Guide #6. Form Groups and Social Supports

MOOC Guide #7. Combine Sync and Async Instruction

MOOC Guide #8. Arrive Early for Sync Session

MOOC Guide #9. Share Resources and Recap them Weekly
**MOOC Guide #10.**
Involve the Participants (e.g., use debates, polling questions)

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**Audience Poll #7:**
Would you like to teach or take a MOOC now?
- A. Yes...
- B. No...

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**Charles Wedemeyer Quote:**
“It should be immaterial whether one has learned at the front door or the back door of the Palace of Learning. **What one has learned**—not where, or how, in what sequence, at what institution, or in what period of time—is the only criterion of supreme importance.”
(Charles Wedemeyer, 1981, p. 216)

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**December 13, 2013**
Former MIT president Charles M. Vest dies at 72
As the Institute’s leader from 1990 to 2004, he sparked a period of dynamism.

Steve Bradt, MIT News Office

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**Stop and Share:**
Three Words from this Session!

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**Any Comments or Questions?**
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Slides at: TrainingShare.com
Papers: PublicationShare.com
Free Book: http://tec-variety.com/
Dr. Curt Bonk – CJBonk@Indiana.edu