Accessing Open Access Educational Resources: Augmenting and Accelerating the Apprenticeship Process

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Blink Tower! [http://vimeo.com/43901180]

January 2013
MOOCs and the Collaboration Industry, Wainhouse Research Note, Analyst: Alan D. Greenberg

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

Part I. Some MOOC news from the past year or two...

November 2, 2012
MOOC News Item #1: The Year of the MOOC, New York Times, Laura Pappano,

[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).]

July 16, 2013
MOOC News Item #2: “Golden Era of Learning” Bill Gates Discusses MOOCs at Microsoft Research’s Faculty Summit

September 16, 2013
MOOC News Item #3:
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.

May 6, 2013
MOOC News Item #4:
Faculty Backlash Grows Against Online Partnerships
Chronicle of Higher Education, Steve Kolowich
http://chronicle.com/article/Faculty-Backlash-Grows-Against/139049/

June 19, 2013
MOOC News Item #5:
2013 is “The Year of the Anti-MOOC”
George Siemens, UW-Madison Summit

February 24, 2013
MOOC News Item #6:
Retention
Bioelectricity: A Quantitative Approach, Duke University’s First MOOC

October 8, 2013
An Early Report Card on Massive Open Online Courses, Geoffrey A. Fowler, WSJ Online

August 18, 2013
MOOC News Item #7:
Virtual U: Master’s Degree Is New Frontier of Study Online
Tamar Lewin, The New York Times
http://www.nytimes.com/2013/08/18/education/masters-degree-is-new-frontier-of-study-online.html?_r=0
September 18, 2013
MOOC News Item #8:
MIT Will Offer MOOC Curricula, Not Just Single Courses, on edX, Steve Kolowich, Chronicle of HE

September 10, 2013
MOOC News Item #9:
Google and edX Create a MOOC Site for the Rest of Us, Steve Kolowich

December 13, 2012
MOOC News Item #10:
UK universities in online launch to challenge US, BBC News, Sean Coughlan
http://www.bbc.co.uk/news/education-20697392

Coursera List of Courses
National Taiwan University
https://www.coursera.org/taiwan

October 16, 2013
MOOC News Item #11:
'Walking Dead' comes alive in the online classroom, Patrick Ryan, USA Today
http://www.usatoday.com/story/life/tv/2013/10/15/society-science-walking-dead-online-course/2976427/

September 2013
MOOC News Item #12:
Professional Development (PD) (practical) MOOC
http://www.sites.google.com/site/courseramodalities/mooc-modalities/21
**October 27, 2012**

**MOOC News Item #13:**
Flying Office Hours, 42,000 sign up
Chuck Severance (U Michigan/Coursera) in Barcelona, Seoul, Manila, Melbourne, etc.
[https://www.coursera.org/#course/inside-the-internet](https://www.coursera.org/#course/inside-the-internet)

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**June 11, 2012**

**MOOC News Item #14:**
MOOC Cases, Examples, and Testimonials from students and instructors
[http://chronicle.com/article/4-Professors-Discuss-Teaching/132125/](http://chronicle.com/article/4-Professors-Discuss-Teaching/132125/)

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**August 5, 2013**

**MOOC at UPenn:** Recession Fuels Explosion of Online Learning, Peter Struck, Professor, UPenn, Mythology class to 54,000 students, AOL News, 1:33 minutes

**Video:** [http://on.aol.com/video/recession-fuels-explosion-of-online-learning-517885097](http://on.aol.com/video/recession-fuels-explosion-of-online-learning-517885097)

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**February 27, 2013 (Inside HE)**

**MOOC News Item #15:**
Grade My Course, CourseTalk (i.e., Yelp for Ed)

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**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=5DhdClnPDFq&feature=youtu.be](http://www.youtube.com/watch?v=5DhdClnPDFq&feature=youtu.be)

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**Part II: What about the Instructor in the Online World?**
(Instructor as Cat Herder?)
Learning is More Interactive and Collaborative

1. Instructor as Counselor

2. Instructor as Consultant

3. Instructor as Conductor

4. Instructor as Course Ambassador

5. Instructor as Curator
6. Instructor as Concierge

7. Instructor as Camping Trip Guide

8. Instructor as Cultivator

To Instruction as a Cognitive Apprenticeship

Part III: Expert Apprenticeship from Video

Experts On Demand
February 22, 2013
NASA's spacey Google+ Hangout shows off zero-G antics – and cats!

May 7, 2012
Google+ Hangouts On Air: broadcast your conversation to the world

March 9, 2012
Online Learning Polyglots

March 9, 2012
Online Learning Polyglots

Experts from Lynda.com

April 18, 2013
Quincy Jones goes high-tech for the lowdown on music,
Marco della Cava, USA TODAY, Playground Sessions

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.

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

TEDx
Aaron Doering, Chasing Seals
http://chasingseals.com/

Educational Video Anchors
TED-Ed: http://education.ted.com/

BETT Talks
Global voices in education technology: Daphne Koller, Coursera BETT 2013 Keynote Talk (posted March 14, 2013)
http://www.youtube.com/watch?v=BMiI6RdlNQs&WT.tsrc=Email&WT.mc_id=NWS14
Academic Earth

BookTV on C-Span2
(Book author interviews)

Fora TV (i.e., "the Conference Channel" or "YouTube for Thinkers"; videos on business, technology, science, politics, and culture)

Big Think
(short topical video interviews and blogs posts from famous people)

Flipgrid
Short video-based discussions

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

BBC programs and Living Arts
http://www.youtube.com/watch?v=rdNpTh6Cx6Y
http://www.youtube.com/watch?v=FDeSrpJaJM&list=UUfHjicBwUQg8s9pE14SGKg&index=6&feature=plcp

Dinosaurs (Laboratory News, April 1, 2012)
http://www.labnews.co.uk/news/prehistoric-revolution/
**The Virtual Choir**
(e.g., Eric Whitacre)
http://vimeo.com/22960177
http://www.youtube.com/watch?v=D7o7BrlbaDs

**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

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**Poll #1:**
But is this a revolution?
A. Yes  
B. Maybe  
C. No

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**Part IV: Ten Anchors and Enders:**
Instructor Centered

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**1. Online Video Anchoring**
Online videos are used as an anchor or advance organizer of a class lecture.

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**Learning and Memory Videos**
6. Pause and Reflect

The instructor(s) plays a portion of a YouTube video and pauses for reflections and then continues playing the video which is followed by still more class reflection.

7. Key Concept Reflections

Instructor shows the YouTube video and asks students to reflect on concepts embedded in it. He may replay the video 1-2 more times while prompting the class for certain key concepts. He might ask students to say "pause" when they see a concept from a particular chapter or unit displayed.

Part V: Ten Anchors and Enders: Student Centered

1. Course Resource Provider Handouts

Students find videos and show them in class and discussion unfolds. Students assigned as the cool resource providers for the week are asked to create a handout for the videos and other course resources selected.

Interactive Multimedia Glossaries
Umida Khikmatillaeva, Dec. 2011, P540
http://learningplanet.shutterfly.com/

4. Student Anchor Demonstrations

Each student brings a video to class and presents and explains how each one is related to course concepts. A coinciding handout of videos and concepts is recommended.
April 25, 2012
MIT+K-12
Making Video to Make a Difference
http://k12videos.mit.edu/

WonderHowTo and Howcast

5. Anchor Creators
Students create their own YouTube videos to illustrate course concepts.

10. Anchor Creator Interviews
Students find YouTube videos relevant to course concepts and email interview the creator about the purpose and potential uses of the video or perhaps request that the creator join the class in a synchronous chat.

Part VI: Lessons Learned...

Karl Fisch, Did You Know?
Shift Happens—Globalization, Information Age
Lesson #1. Combining Asynchronous and Synchronous Events (e.g., guest was David Merrill, 2007)

Synchronous + Asynchronous (e.g., Elliot Soloway and David Palumbo, 1995)

Lesson #2. If Plan, No Instructor Required (Guest Session Run by Assistant)

Lesson #3. Test the System (e.g., Guest No Video)

Lesson #4. Guest Starts Semester Michael Horn and Curt Bonk, R685, August 20, 2012

Lesson #5. Multiple Guest Experts Sara de Freitas and Jim Hensman, U of Coventry, UK (https://connect.iu.edu/p2ie1yx6z6x/) Jay Cross, Berkeley (https://connect.iu.edu/p4bytsoronh/)
Lesson #6. Be Willing to Reciprocate

Lesson #7: Experiment with Technology
Collaboration and Discussion in Google Hangouts (1/29/2013)

Cross-Institutional Wikibook Project
(e.g., IU and the University of Houston)

Lesson #8: Solicit Student Recommendations
Expert Interviews (Rich Culatta, Acting Director, Office of Educational Technology)

Lesson #9: Don’t Give Up!
Serious Gaming Institute, Coventry, UK

Lesson #10: Make a List of Those You Know
Intelligirl Sarah Smith-Robbins and Mark Bell
(Second Life for Dummies)
Part VII: Ten Pedagogical Activities for Class-Related Videoconferencing or Web Conferencing with Experts

1. Expert Presentations with Audience Questioning and Commenting
   The guest expert makes a formal or semi-formal presentation of ideas, activities, cultural norms and practices, or research to the class.

2. Expert Demonstrations and Audience Questioning
   The guest expert demonstrates a certain technique, idea, principle, etc., while the learners observe and ask follow-up questions.

3. Question and Answer Sessions
   The guest expert responds to questions posed by the audience based on a particular topic (the audience might read or watch ahead of time).
4. Responding to Book or Article Quotes

The learners come to the synchronous session with quotes from those articles or resources for the guest expert to respond to.

5. Responding to Publication Visuals

Students find visuals from the culture or country of the guest to respond to; alternatively, they might find charts, tables, figures, and graphs from articles, books, or presentations of the guest expert.

6. Expert Panel

A panel might set up to discuss a particular issue, trend, controversial topic, cultural practice, research finding, announcement, etc.

7. Expert Cultural Sessions

The guest might conduct a short presentation of some aspect of their culture followed by questions from the class.

8. Expert Interviews and Discussions

Students might read the biography or resume of the guest as well as available articles, books, and other resources about this person. Next, the guest might respond to questions from the class based on these resources.

Videoconference
Shanghai, China, April 28, 2013
Videoconferencing (first demo in 1964 at the World's Fair; use increased in 2003)

Tablets Rock On: Education Tech Through The Ages, Information Week, February 26, 2013
http://www.informationweek.com/education/instructional-it/blended-learning-improves-test-scores/240159840

9. Expert Life Stories
The guest expert might detail different stories or situations that he or she has encountered related to a certain topic of the class. Students in the class can comment on them and ask questions as needed.

10. Expert Session Archive Reviews and Discussions
A class might watch one or more guest expert sessions from a previous semester and form discussion groups based on controversial, confusing, or complex aspects of such sessions.

GETideas Channel, Cisco (Thought Leader Series uploaded to YouTubEdu), July 22, 2011

Part VIII: What’s Next? Some Predictions...
The Next 30 Years, USA Today, Sept 2012

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)
   [Link](http://www.nytimes.com/interactive/2010/05/03/blogs/a-moment-in-time.html?_r=0)

5. Experts Apprenticeship via Our Glasses

Final Poll: How many new 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.

Questions?

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