

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

Dr. Curtis J. Bonk, [cjbonk@indiana.edu](mailto:cjbonk@indiana.edu)  
Professor, Indiana University



Blink Tower: <http://vimeo.com/43401199>

**1. Instructor as Credit Manager**



**2. Instructor as Camp Commandant**



**3. Instructor as Court Room Judge**



**4. Instructor as Casino Operator**



**5. Instructor as Counselor**



**6. Instructor as Consultant**



**7. Instructor as Conductor**



**8. Instructor as Course Ambassador**



**9. Instructor as Curator**



**10. Instructor as Concierge**



**11. Instructor as Camping Trip Guide**







## 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

<http://googleplus.blogspot.com/2012/05/creating-hangouts-on-air.html>



## March 9, 2012 Online Learning Polyglots



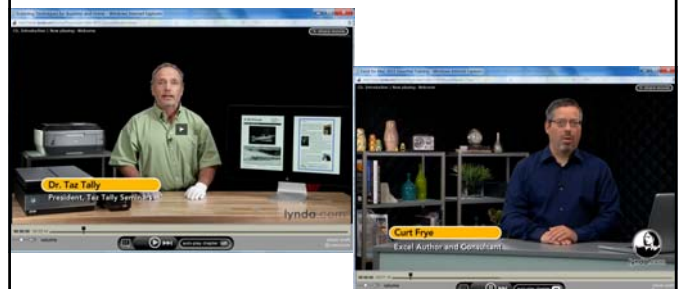
Timothy posts videos of himself speaking several languages on YouTube.

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

[http://www.youtube.com/watch?v=K199FvK7A&annotation\\_id=annotation\\_389852&feature=cp](http://www.youtube.com/watch?v=K199FvK7A&annotation_id=annotation_389852&feature=cp)



## Experts from Lynda.com



**April 18, 2013**

Quincy Jones goes high-tech for the lowdown on music, Marco della Cava, USA TODAY, Playground Sessions  
<http://www.playgroundsessions.com/about.html>



**October 15, 2012**

**Reusable Khan**  
Lacking Teachers and Textbooks, India's Schools Turn to Khan Academy to Survive, NY Times, Anupama Chandrasekaran  
<http://nytimes.com/2012/10/15/technology/teachers-and-textbooks-indian-schools-to-khan-academy-to-survive/>



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

**Bill Gates' classroom of the future**



Getty. How to make digital classrooms work



**Should we be trained for such environments?**



**July 23, 2012**

Coursera course on Internet History, Technology, and Security, Chuck Severance  
42,000+ sign up...

<https://www.coursera.org/#/course/insidetheinternet>



**October 27, 2012**

**Chuck Severance**  
(U Michigan/Coursera) in Barcelona  
<http://www.youtube.com/watch?v=JzNHvmSv8T1>



**February 20, 2013**

UW-Madison to expand distance learning with Massive Open Online Courses, Kari Knutson, University of Wisconsin-Madison News

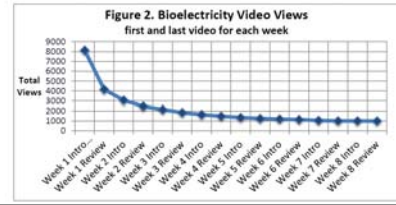
[http://www.news.wisc.edu/21507/utm\\_source=UW&utm\\_medium=email&utm\\_campaign=UW2013-02-21](http://www.news.wisc.edu/21507/utm_source=UW&utm_medium=email&utm_campaign=UW2013-02-21)



**February 5, 2013**

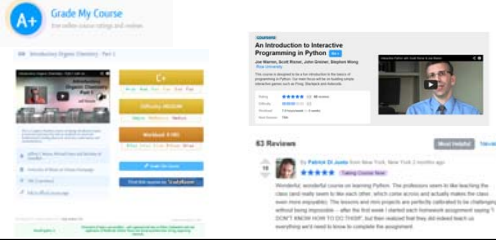
Bioelectricity: A Quantitative Approach, Duke University's First MOOC

[http://dukespace.lib.duke.edu/dukespace/bitstream/handle/10161/62146/Duke\\_Bioelectricity\\_MOOC\\_Fall2012.pdf](http://dukespace.lib.duke.edu/dukespace/bitstream/handle/10161/62146/Duke_Bioelectricity_MOOC_Fall2012.pdf)



**February 27, 2013 (Inside HE)**  
Grade My Course, CourseTalk (i.e., Yelp for Ed)

<http://www.grademycourse.com/>; <http://coursstalk.org/>



**Celebrity Instructors in YouTube**

Randy Pausch's last lecture

[http://www.youtube.com/watch?v=j15\\_MajcxSo](http://www.youtube.com/watch?v=j15_MajcxSo)

April 2008

~2 million views

October 2008

7.5 million views

April 18, 2013

15.8+ million views



**TED Talks**  
(Build a School in the Cloud; Self-Organized Learning Environments (SOEs), February 2013, TED Talk from Sugata Mitra

[http://www.ted.com/talks/sugata\\_mitra\\_build\\_a\\_school\\_in\\_the\\_cloud.html](http://www.ted.com/talks/sugata_mitra_build_a_school_in_the_cloud.html)



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



## TEDx

Aaron Doering, Chasing Seals  
<http://chasingseals.com/>



Speaking for Change and Humanity

When the world is filled with people who are trying to do good, it's hard to believe. Technology, education and innovation can change how we interact, understand and connect.

## BETT Talks

Global voices in education technology:  
Daphne Koller, Coursera BETT 2013 Keynote Talk  
(posted March 14, 2013)

[http://www.youtube.com/watch?v=9M116RfINQ&WTsrc=Email&WT.mc\\_id=NWS14](http://www.youtube.com/watch?v=9M116RfINQ&WTsrc=Email&WT.mc_id=NWS14)



Global voices in education technology: Daphne Koller, Coursera

1:16:46

95 views

## Link TV (Television without Borders)



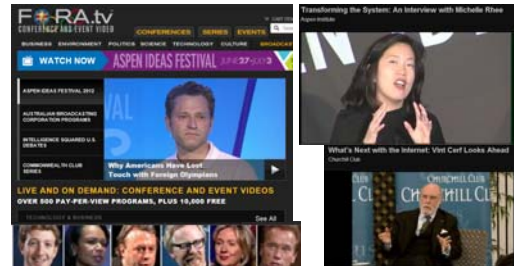
## Academic Earth



## BookTV on C-Span2 (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)



## Tracking the Life of a Scientist

(e.g., Brian J. Ford, independent scientist)

Origin of Humans: <http://www.youtube.com/watch?v=2Ht1mmit0t8>  
 Tellymonitor's Channel: <http://www.youtube.com/user/tellymonitor>  
 BBC programs omit living cells: <http://www.youtube.com/watch?v=r8BjTh5c6dY>  
 Secret Weapons: <http://www.youtube.com/watch?v=FDu-Spa1W41ts>  
 wLDGds5pE14SGk&index=&feature=plp  
 Dinosaurs (Laboratory News, April 1, 2012): <http://www.labnews.co.uk/news/prehistoric-revolution/>



## 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>



## Poll #1: But is this a revolution?

- A. Yes
- B. Maybe
- C. No



## Ten Anchors and Enders: Instructor Centered



## 1. Online Video Anchoring

Online videos are used as an anchor or advance organizer of a class lecture.





## 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.



## 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.

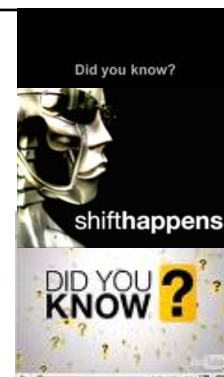


## 10. Anchor Creator Interviews

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.



Karl Fisch, Did You Know?  
Shift Happens—Globalization,  
Information Age



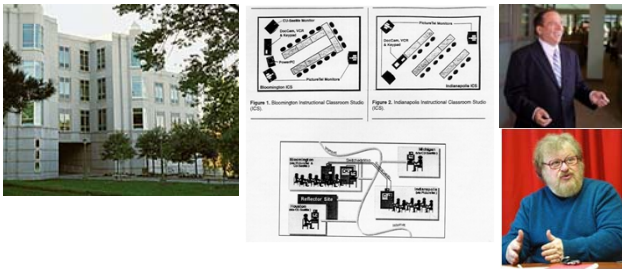
## Lessons Learned...



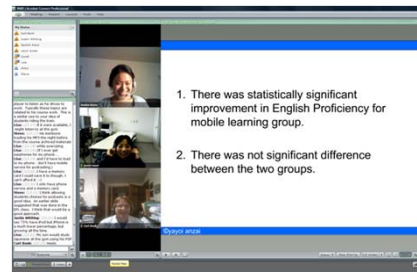
## Lesson #1. Combining Asynchronous and Synchronous Events (e.g., guest was David Merrill, 2007)



## 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



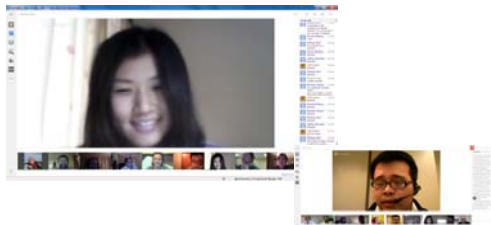
**Lesson #5. Multiple Guest Experts**  
Sara de Freitas and Jim Hensman, U of Coventry, UK  
(<https://connect.iu.edu/p2ie1yx6z6x/>)  
Jay Cross, Berkeley (<https://connect.iu.edu/p4btytsorohb/>)



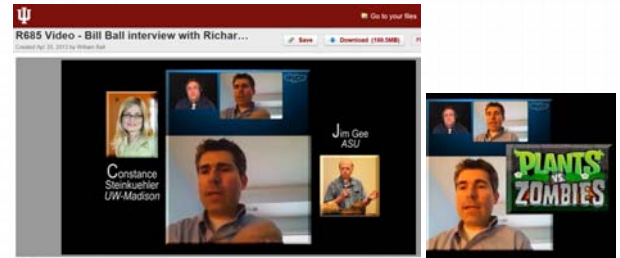
**Lesson #6. Be Willing to Reciprocate**



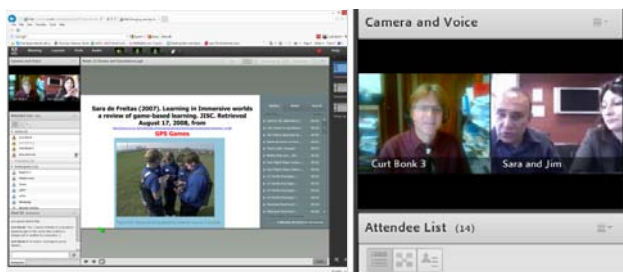
**Lesson #7: Experiment with Technology**  
Collaboration and Discussion in Google Hangouts (1/29/2013)



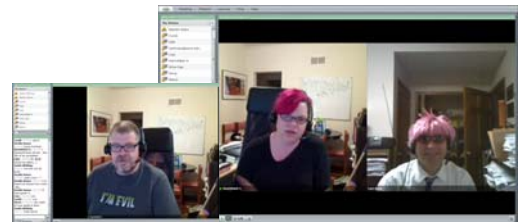
**Lesson #8: Solicit Student Recommendations**  
Expert Interviews (Rich Culatta, Acting Director, Office of Educational Technology)



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



**Lesson #10: Make a List of Those You Know**  
Intellagirl Sarah Smith-Robbins and Mark Bell  
(Second Life for Dummies)





**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.

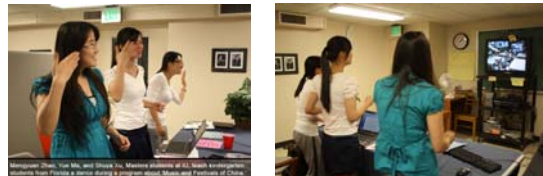


**Jay Cross, April 15, 2013  
(Adobe Connect + Google Hangouts)**



**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.



**University of Wisconsin and students in Mexico  
(agriculture classes)**



**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).



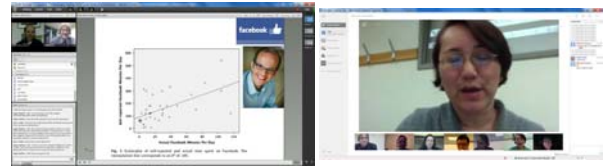
**March 17, 2013**  
**Globalizing MOOCs (George Siemens)**  
 Chris Olds, Inside Higher Ed  
<http://www.insidehighered.com/blogs/globalhighered/globalizing-moocs>

Globalizing MOOCs  
 March 17, 2013 - 5:40pm  
 by Chris Olds



**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.



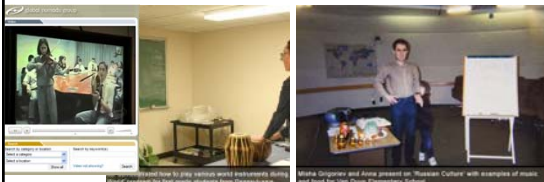
**6. Expert Panel**

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



**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



**What's Next? Some Predictions...**  
The Next 30 Years, USA Today, Sept 2012

<http://www.usatoday.com/video/news/1839139560001>



**1. Video Walls of Experts**



## 2. Mobile Video Connections to Experts and Friends



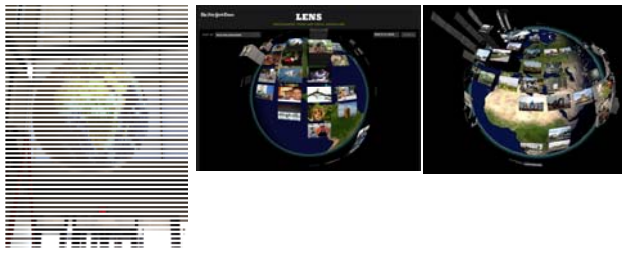
## 3. Expert Access from Our Watches



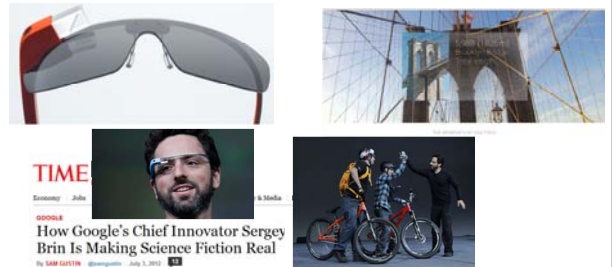
## 4. Interactive Globes

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

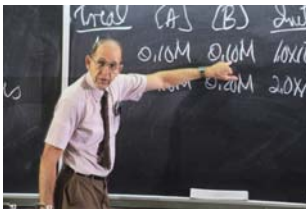
[http://www.nytimes.com/interactive/2010/05/03/blogs/a-moment-in-time.html?\\_r=0](http://www.nytimes.com/interactive/2010/05/03/blogs/a-moment-in-time.html?_r=0)



## 5. Experts Apprenticeship via Our Glasses



## 6. Experts Apprenticeship from the Departed



Duke Flags Lowered: Longtime Duke Chemistry Professor James Bonk Dies, Duke Today, March 15, 2013

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

Slides at: [TrainingShare.com](http://TrainingShare.com)  
Papers: [PublicationShare.com](http://PublicationShare.com)  
Book: <http://worldisopen.com/>  
Email: [curt@worldisopen.com](mailto:curt@worldisopen.com)

