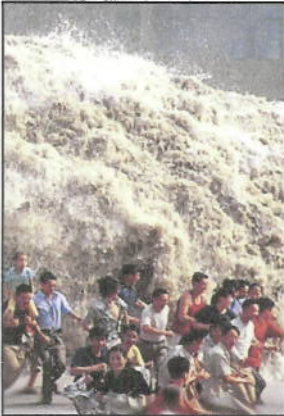


Avoiding Natural Disasters with Blended Learning

Curt Bonk, Professor, Indiana University
President, SurveyShare, Inc.
cjbonk@indiana.edu
<http://mypage.iu.edu/~cjbonk/>
<http://SurveyShare.com>



Hurricane Ike



Tsunami American Samoa



Doing the Tsunami Tango
in American Samoa: Part I
Wayne Hodgins,
Learnativity
<http://learnativity.typepad.com/>



Blizzards and Ice Storms



SARS in Hong Kong

(David Carpenter, May 2, 2009)

"When the 2003 outbreak of SARS occurred in Hong Kong, the government quickly closed all the schools. The Hong Kong International School moved to create their "Virtual School" for students remaining in Hong Kong and those who chose to return to their home countries. We used simple Web pages, email, MP3 voice recordings, phones, etc. to run our online learning community."

Poll #1: Have you ever experienced a natural disaster? (check all that apply)

1. SARS
2. Earthquake
3. Tsunami
4. Winter Blizzard or Ice Storm
5. Major Flood
6. Hurricane, Typhoon, or Serious Tropical Storm
7. Swine Flu, Asian Flu, or Similar
8. Tornado
9. Near death weather-related situation
10. Other (not listed above)

How Schools and Parents Can Prepare for Swine Flu

Here are tips for parents and schools to keep children healthy and engaged in their learning, Zach Miners, November 2, 2009
US News and World Report

- With the Centers for Disease Control and Prevention reporting approximately 44,000 cases of swine flu and at least 114 pediatric deaths since April, schools across the country are considering how to deal with a mass outbreak.

What to Do if H1N1 Hits Your Kid's School, CBS News, October 31, 2009



PLAY CBS VIDEO

VIDEO

H1N1 in Your School?

Hundreds of schools have shut their doors for a period of time this flu season due to an outbreak of the H1N1 virus. Hill speaks with Dr. Holly Philpo about what to do regarding children and H1N1 in schools.



CDC's Swine Flu Toll: 4,000 Dead November 13, 2009

Hundreds of Miami County residents stand in line in a shuttered department store at the Miami Valley Centre Mall in Piqua, Ohio on Nov. 2 to get the county's first doses of H1N1 vaccine.

<http://www.edweek.org/ew/collections/flu/index.html>



E-Learning's Potential Scrutinized in Flu Crisis, Education Week, Katie Ash & Michelle R. Davis, May 12, 2009

- Work on a crisis plan
- Use online resources
- Evaluate the telecommunications infrastructure
- Make sure teachers are prepared



How Schools and Parents Can Prepare for Swine Flu

Here are tips for parents and schools to keep children healthy and engaged in their learning, Zach Miners, November 2, 2009
US News and World Report

- "This is fairly revolutionary," says Cable Green, E-learning director for the Washington State Board for Community and Technical Colleges. "Had this happened five or 10 years ago, we'd probably say, 'School is closed, see you in three weeks.'"

How Schools and Parents Can Prepare for Swine Flu

Here are tips for parents and schools to keep children healthy and engaged in their learning, Zach Miners, November 2, 2009
US News and World Report

- At Gwinnett County Public Schools near Atlanta, a plan is in place to make courses available to students through the online software company Elluminate...the county hopes to be ready in the event of a mass swine flu outbreak and will use as many technology tools as possible to ensure a continuity of learning.

How Schools and Parents Can Prepare for Swine Flu (continued...)

Strategies could be built around anything:

1. Take-home course packets
2. Online materials
3. Listservs
4. DVD and MP3 players
5. Conference calls
6. Internet-based, webinar-style classes

What can you do? (EdWeek.org)

- Post syllabus and content online
- E-books and other resources
- Fully online courses
- Phone conferencing (e.g., Skype, Google Talk, VOIP)
- Web conferencing
- Learning management systems to track progress

What can you do? (EdWeek.org)

- Videotape master teachers
- Learning packets to be sent home
- Check out laptops to younger students
- Phone hotline for homework
- Interactive study guides online
- Online grading and assignment-posting programs
- Online resources, textbooks, instructional websites, online databases, and Google Docs

What can you do? (EdWeek.org)

- Post assignments
- Develop plan for file or assignment uploading and downloading as well as a system for feedback
- Develop plan for hard copies of assignments for students lacking computer access

What Can You Do?

- **Elementary:** Use website, cable TV programming, create teaching videos to show over TV, blogs, wikis, email to communicate.
- **Middle School:** add Twitter for district messages.
- **High School:** add laptops to take home, Blackboard to teach online.

Recorded class meetings

Are there contingency plans to incorporate captioned close-circuit, public television, Web-based tools, or cable channels to deliver live or pre-recorded lessons?

Teacher check-ins and tutorials

Have plans been created with teacher input for teachers to conduct telephone conferences with students, parents, or guardians to review student progress, assignments, as well as provide tips for building structured learning time at home?

Blending Online Is the Solution!

- "Blended learning refers to events that combine aspects of online and face-to-face instruction" (Rooney, 2003, p. 26; Ward & LaBranche, 2003, p. 22)



The Sloan Consortium

(2003). *Sizing the Opportunity: The Quality and Extent of Online Education in the U.S., 2002 and 2003*
http://www.sloan-c.org/resources/sizing_opportunity.pdf

Proportion of content delivered online	Type of Course	Typical Description
0%	Traditional	Course with no online technology used - content is delivered in writing or orally.
1 to 29%	Web facilitated	Course which uses web-based technology to facilitate what is essentially a face-to-face course. Might use Blackboard or WebCT to post the syllabus and assignments, for example.
30 to 79%	Blended/Hybrid	Course that is a blend of the online and face-to-face course. Substantial proportion of the content is delivered online, typically uses online discussions, typically has some face-to-face meetings.
80+	Online	A course where the vast bulk of the content is delivered online. Typically has no face-to-face meetings.



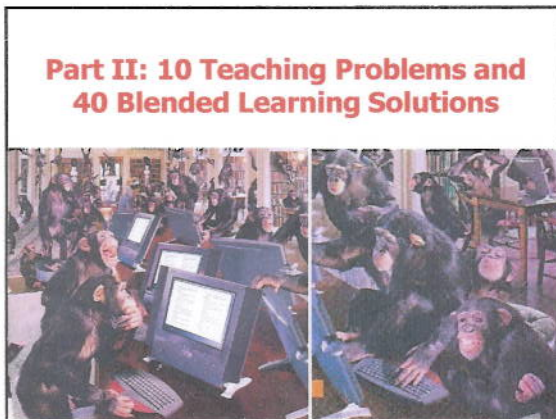
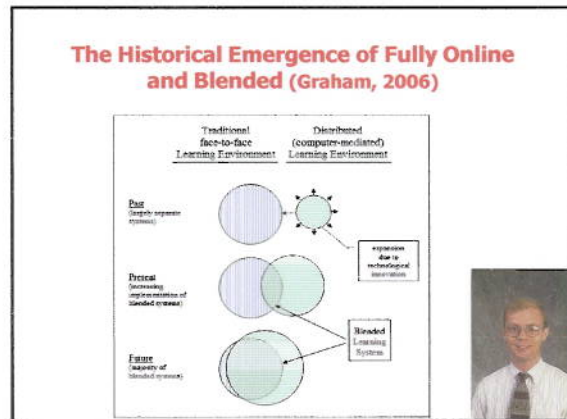
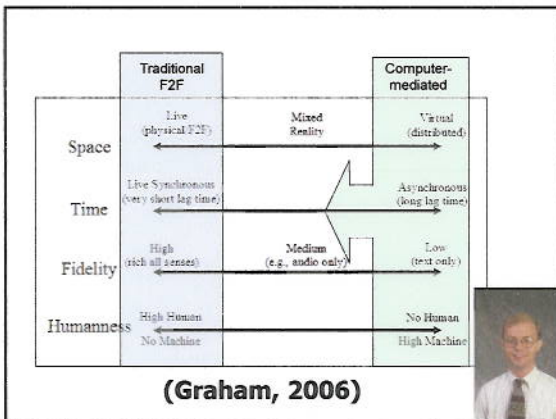
Who is demanding fully online and blended learning?



Fully Online and Blended Learning Advantages

1. More time to reflect
2. Increased Learning (better papers, higher scores)
3. More effective pedagogy and interaction
4. Convenient and flexible
5. Lower costs
6. Increased human interaction and communication
7. Introverts participate more





Problem Situation #1: Many Students are Missing

- There is an outbreak of the swine flu, SARS, etc., or natural disaster like a flood, hurricane, earthquake, blizzard, tsunami, etc.

Blended Solution #1. Webinars

(Elluminate, Dimdim, WebEx, Adobe Connect Pro)

Elluminate Solutions
Train more, spend less. Take your professional development online with Elluminate.

Blended Solution #2. Public TV; e.g., Mongolia teachers addressing H1N1

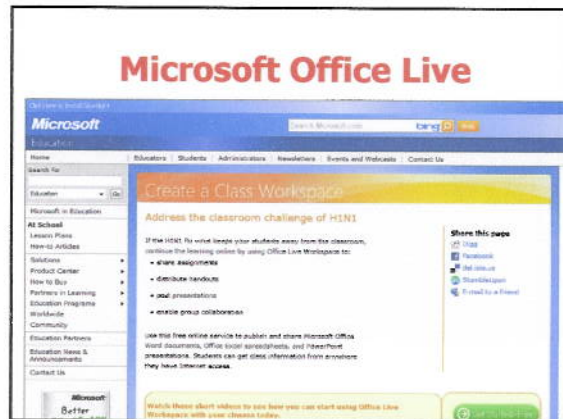
(Otgo Okhidoi, Nov 10, 2009)

Blended Solution #3. Create Online Class Space for H1N1 (e.g., Microsoft Office Live, Google Sites)

- **Microsoft : Office Live Workspace**, free of charge to educators; its web site to **Office Live Workspace and H1N1**, includes videos and how-to tips to help teachers quickly and easily set up an Office Live classroom page.

class workspace:

- Teachers share content, lesson plans, and curriculum.
- Students access general classroom workspace, or use an individual workspace; can comment and chat with each other on discussion topics, virtual presentations, and other materials. The virtual classroom spaces include file storage.



Blended Solution #4. Streaming Class Video for Remote Students (e.g., Tegrity, Univ of Central Florida)

University of Central Florida Rapidly Deploys Tegrity Campus 2.0

Within a single semester, more than 2,300 UCF students and 80 faculty members were using Tegrity Campus 2.0, making classes available to every student in the college, anytime.



Problem Situation #2: Typical Student Absenteeism

- **Students miss class to attend a conference or event or a personal problem arises. Or students asks to watch the class a second time.**

Section	Class	Day	Time	Location	Instructor
ENGL 101	ENGL 101	MON	9:00 AM	UNIV	James Hamilton
ENGL 101	ENGL 101	TUE	9:00 AM	UNIV	James Hamilton
ENGL 101	ENGL 101	WED	9:00 AM	UNIV	James Hamilton
ENGL 101	ENGL 101	THU	9:00 AM	UNIV	James Hamilton
ENGL 101	ENGL 101	FRI	9:00 AM	UNIV	James Hamilton
ENGL 101	ENGL 101	SAT	9:00 AM	UNIV	James Hamilton
ENGL 101	ENGL 101	SUN	9:00 AM	UNIV	James Hamilton



Blended Solution #5. Class Site (e.g., Google Sites)

Google sites

Thinking of creating a website?

Google Sites is a free and easy way to create and share webpages. [Learn more.](#)

Create
rich web pages easily

Collect
all your info in one place

Control
who can view and edit



New! Create a site from dozens of pre-built templates

Blended Solution #6. Wiki Collaboration Site (e.g., Wikispaces)

Wikispaces

Wikis for Everyone

Our full-featured wikis offer unlimited usage and our stellar visual editor. Check out our [plans and pricing](#), and see why our customers call us the best wiki out there.

Now hosting over 3,400,000 members and 1,300,000 wikis!

We have given away over 230,000 wikis for K-12 education. Learn more and create your own classroom wiki today.

Already a member? Sign in.

Get Started

Username

Password

Remember me

Email

Get Started

Private Label

Wiki Solutions for Organizations
Powerful, reliable, secure.



**Problem Situation #3:
Web Supplemental Activities**

- Fail to finish class discussion or other activity in time. Or desire to integrate the Web more in your face-to-face instruction or outside of class. Want to provide course resources and activities for students to explore.

**Blended Solution #7.
Use Open Educational Resources
National Flu Readiness Initiative Taps Curriki for E-Learning, Educ Week, Katie Ash on August 28, 2009**



Companies help schools survive swine flu, eSchool News, Sept., 16, 2009

Users of Curriki can create collections of open educational resources, along with repositories of other supplemental content, the site's creators said. States and school districts can take advantage of customized landing pages designed to provide specific information, news, resources, and links to their education stakeholders.

**Blended Solution #8. Department of Education free lesson plans
<http://www.free.ed.gov/>**



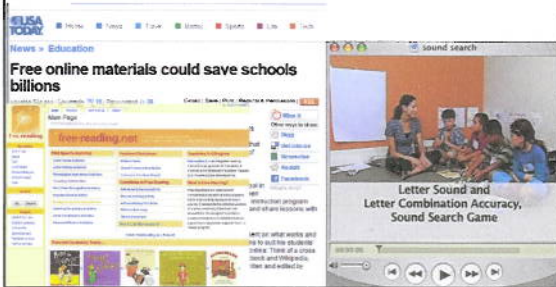
**Blended Solution #9. Free Lessons from Smithsonian Education
<http://www.smithsonianeducation.org/educators/>**



Blended Solution #10. Practice Skills (e.g., A Grain of Rice)



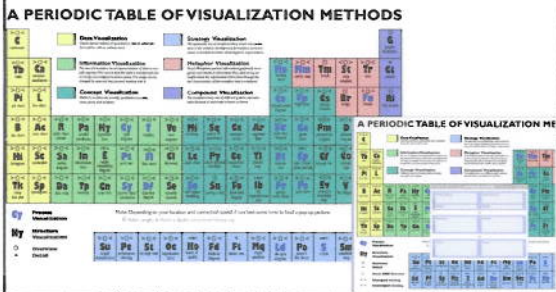
Blended Solution #11. Online Reading Programs (See free-Reading.net)



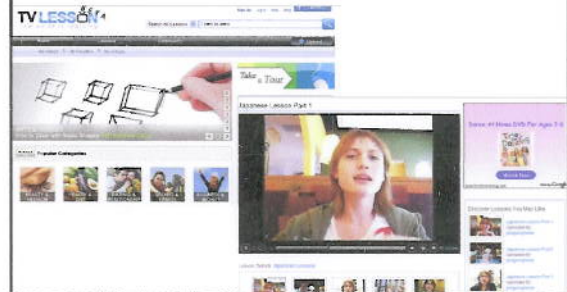
Blended Solution #12. Online Referenceware



Blended Solution #13. Visual Resources (e.g., Periodic Table of Visualization; Visual Thesaurus)



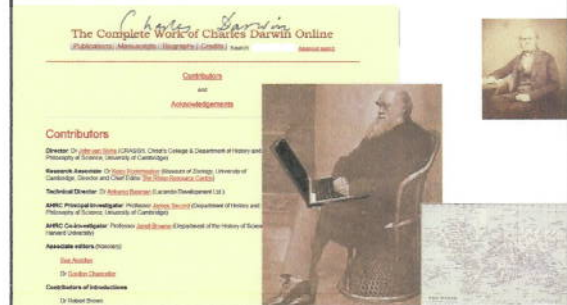
Blended Solution #14. Use Free Shared Online Videos Lessons (How-to lessons from experts: 1,000's of instructional videos and articles; http://www.tvlesson.com/)



Blended Solution #15. Online Portal & Resource Explorations (Encyclopedia of Life, history, science, poetry, literature, etc.)



Blended Solution #16. Science Portals (e.g., Complete Works of Charles Darwin, Einstein, etc.)



Blended Solution #17. Species Portals
 Ida (a transitional species); 47-Million-Year-Old Darwinius
 Masillae Fossil the Missing Link? (wowOwow, May 20, 2009)

Blended Solution #18. Science Live
 (Live Internet Thawing of Colossal Squid)

Blended Solution #19. Online English Literature
 (e.g., The Carlyle Letters Exploring Victorian World
 Through Letters and The Diary of Samuel Pepys)
 (Great Plague, Great Fire, Charles Dickens, Erasmus Darwin, Mary
 Wollstonecraft Shelley, Robert Browning, John Stuart Mill, Ralph Waldo
 Emerson, Elizabeth Barrett Browning, and Alfred Tennyson)

**Problem Situation #3:
 Collaborative Skill Deficit**

- Students need collaboration and teamwork skills. Want to build virtual teaming skills in class activities or work with learners in other locales or situations.

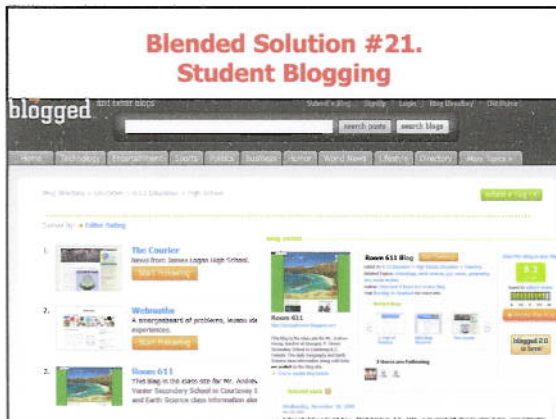
Blended Solution #20.
 Paired Article Critiques in a Blog

- Students sign up to give feedback on each other's article reviews posted to their blogs.

Article	Student Critique	Student Peer Review
Although, J.B. (2007). <i>Does the Community of Inquiry Framework Predict Outcomes in Online MBA Courses?</i>	Siobhan Moore	Laraine Ryan
	Caroline Penzko	Karen Leonard
	Lin Yi	Fiona Liu
	Alex Binstley	Lon Adkinson
Merrin, K.A. (2003). <i>Face-to-Face versus Threaded Discussion: The Role of Time and Higher Order Thinking</i>	Laraine Ryan	Paul Anderson
	Hazel D'Amico	Yvonne Toney
	Nancy Azzam	Caroline Penzko
	Karen Leonard	Lin Yi
Shen, P., Li, C.S. and Pickett, A. (2006). <i>A study of teaching presence and student sense</i>	Francine Wilkerson	Alex Binstley
	Hazel D'Amico	Sasha Rosopich
	David Wilson	Nancy Azzam

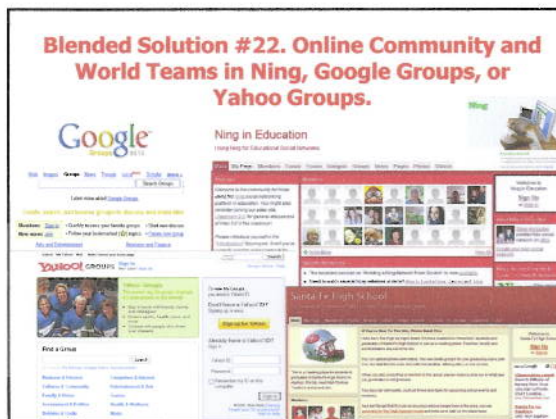
**Problem Situation #4:
 Student Reflections and Connections**

- Students are not connecting content. They are just turning pages and going through the motions. Minimal student reflection is seen.



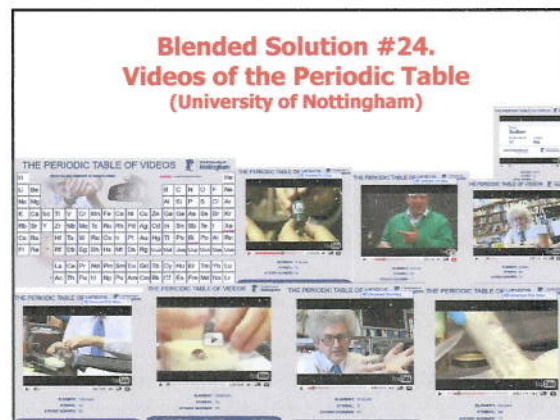
Problem Situation #5: Learning Community

- There is a preference for creating an online learning community in order to increase student learning and retention in the program. Such a community might be in a single class or across a series of classes.



Problem Situation #6: Need to Visualize Content

- Content is highly visual in nature and difficult to simply discuss in class. Or students have a preference for visual learning.



Blended Solution #25. Flash, 3-D Visualization, & Laboratory Software

Blended Solution #26. Shared Online Videos for Anchoring or Ending Instruction (find anchoring event in YouTube, CNN, BBC, TeacherTube, CurrentTV)

Blended Solution #27. Explore Online Human Body and Museum Exhibits

Blended Solution #28. Adventure Learning (e.g., Alan Doering, Discovery Channel)

Blended Solution #29. Religious, Political, and Historical Video Portals (e.g., YouTube and the Royal Channel)

Blended Solution #30. Individual Produced Videos (e.g., African School Dream in Current TV)

**Blended Solution #31.
Link TV & Fora TV**

Poll #5: Which shared online video resources have you used or seen used in teaching? (check all that apply)

1. BBC News Video and Audio
2. CNN.com Video
3. Current TV
4. Fora TV
5. Google Video
6. Link TV
7. MIT World
8. MSNBC.com
9. NASA TV
10. TeacherTube
11. YouTube
12. YouTube Edu

**Problem Situation #7:
Need for Hands-On Learning**

- **To learn the material requires that students try it out in a lab or real-world situation. Or students prefer hands-on learning activities.**

Blended Solution #32. Using Online Video (e.g., YouTube) to Memorize Sonnets and Poems

**Blended Solution 33.
Wikis In the Classroom**


Kindergarten is a milestone in your child's life. It is the first step toward life-long learning and social participation. New experiences and friends will make this year a special time for you and your child. I have many exciting activities planned, all designed to enrich your child's background and make learning exciting and fun. I am looking forward to sharing them with you and your child.

Poll #4: Which of the following resources from the Wikimedia Foundation have you used (check all that apply)


1. Wikibooks
2. Wikicommons
3. Wikinews
4. Wikipedia
5. Wikiquote
6. Wikisource
7. Wikispecies
8. Wikiversity
9. Wiktionary

Blended Solution #34. Wikibook and Wikipedia Editing

- Ask students to edit a page from Wikipedia or a chapter in a wikibook.
- The write a reflection paper on it.



Blended Solution #35. Explore Virtual Worlds and Online Representations (UCLAs CVRLab, University of Virginia)

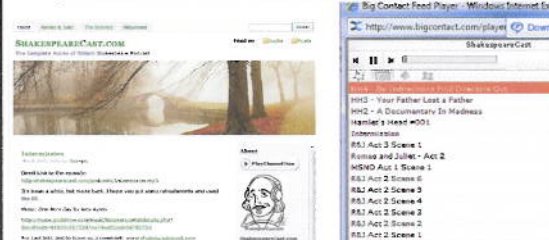


Problem Situation #8: Preference for Auditory Learning


- The content is heavily verbal or words. Or students have a preference to listen to a lecture or hear an instructor deliver a lecture.

Blended Solution #36. Podcasts of Famous Literature (e.g., Shakespeare)

ShakespeareCast.com: students can listen to podcasts of famous literature and reflect on it.



Blended Solution #37. Online Language Learning: Practice (ECpod, Mixer, Livemocha, KanTalk,)



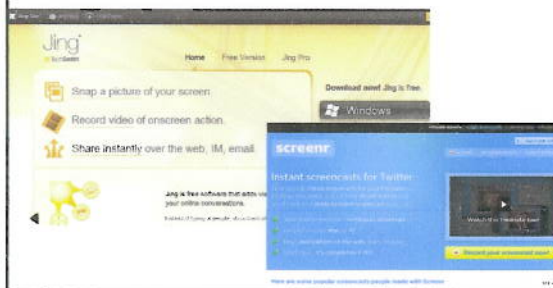
Blended Solution #38. Self-Paced Language Programs: Listen (JapanesePod, SpanishPod, Arabic online)



Problem Situation #9: Lack of Instructor Presence

- Students need to see or hear from the instructor. They need a sense that the instructor is supporting their learning. They prefer face-to-face but are willing to try online.

Blended Solution #39. Tutorials with Screen Capture (e.g., Jing, Screnr)



Blended Solution #40. Experts and Scientists (e.g., Exploratorium-Sponsored Ice Stories Project from Antarctica)



Trends and Challenges for Blended Learning

1. Teachers and students are more mobile.
2. Students more choices.
3. Student expectations rise.
4. Greater self-determined learning.
5. More corporate university partnerships.
6. Courses increasingly modular.
7. Less predefined schedules.
8. When teaching less clear; when learning less clear.

Poll #4: How many ideas did you get from this talk?

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.
7. More than 10.



Questions and Comments

Note: Bonk papers and talks at:
<http://www.publicationshare.com/>
<http://www.trainingshare.com/>

