

The Horizon Report – and an Academic Technology Mashup

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Ingredient list - Context

Slides from my presentation at the January Academic Technology symposium.

Horizon reports, past and present.

Slides from Sheri Sheppard's recent Stanford professional development presentation.

Going rogue.

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Obsolete learning technologies

Obsolete Learning Technologies

- 1. Scantron sheets**
- 2. Overhead projectors & transparencies**
- 3. Classroom VCD/DVR player**
- 4. Course packs & readers**
- 5. Photocopiers**
- 6. Microfiche**
- 7. Language & computer labs**
- 8. Paper journals & periodicals**

www.InsiderHigherEd.com 29 Dec 2009

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Instead of ... use

Scantron sheets ... Low stakes quizzes in LMS

VCD/DVR player ... Upload video to LMS

“Not so long ago showing video inside of class seemed acceptable, nowadays that time can be used for discussion and debate.”

Computer labs ... Laptops & virtualized labs

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What about our students?

2008 Ed Nelson's Student Technology Survey showed:

- 97% use Bb, primarily from home (76%)**
- 96% had cell phone, 40% used for class/study**
- 62% used univ comp facilities, decreasing since 1998**
- 72% used a laptop on campus (84% was own)**
- 95% used wireless on campus**
- 97% visited the university website**

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Quick quiz

For Fall 2009 what was the number of

- 1. students (head count)?**
- 2. classes (all types)?**
- 3. enrollments?**

using Blackboard at Fresno State?

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Quick quiz

For Fall 2009 what was the number of

- 1. students (head count)? 22,111**
- 2. classes (all types)? 3,506**
- 3. enrollments? 92,193**

using Blackboard at Fresno State?

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Predicting the future beyond next week is difficult.

NMC annual Horizon Reports (since 2002) is well intentioned, by smart people (but not always high hit rate).

The Feb 2009 Horizon report said:

- <= 1 year: mobiles, cloud computing**
- 2-3 years: geo-everything, the personal web**
- 4-5 years: semantic awareness, smart objects**

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Predicting the future beyond next week is difficult, continued

The Feb 2010 Horizon report says

- <= 1 year: mobiles (again), open content
- 2-3 years: augmented reality, ebooks
- 4-5 years: gesture-based interfaces, visual data analysis

Where are we?

Predicting the future beyond next week is difficult.

Looking back over Horizon Reports...

- Learning objects were predicted for 2005
- Mobile devices/phones for 2008, 2009 (twice), 2010
- Social computing/networking/operating systems for 2006, 2007, 2008 (twice), 2009, 2012
- Personal broadcasting/content creation/web for 2006, 2007, 2008, 2009, 2010

What stands out? Mobile, Social & Personal

Two slides from Sheri Sheppard

“Managing millennials – Extracting innovation across the generational divide”

Stanford Center for Professional Development
6 April 2010

Description of Generation Trends

	Matures/Silents	Baby Boomers	Gen.X	Millennials
Birth Years	1928-1945	1946-1964	1965-1979	1980-1991
Webinar Participants	0% (0)	28% (29)	47% (47)	25% (26)
What makes our generation unique?	WWII, Depression <i>Smarter</i> Honest Work Ethic Values/Morals	Work Ethic Respectful Values/Morals “Baby Boomer” <i>Smarter</i>	Tech. Use Work Ethic Conservative <i>Smarter</i> Respectful	Tech Use Music/Pop culture Liberal/Tolerant <i>Smarter</i> Clothes

- Chubin, Donaldson, Olds, Fleming, *JEE*, 2008
- *Millennials: A Portrait of Generation Next*, 2010

Examples of Old & New Paradigms for Teaching/Managing

	Old	New
Knowledge	transferred	constructed
Student goals	Complete requirements	Growth, focus on continual, lifelong learning
Relationships	Impersonal	Personal transactions
Context	Competitive/individualistic	Cooperative learning and teams
Climate	Conformity/cultural uniformity	Diversity & personal esteem/cultural diversity & commonality
Power	Faculty holds power	Students are empowered

Smith, Linse, Turns, Atman, ASEE Conf., 2004

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“Cloud computing has become an everyday transaction”

“You just turn on your netbook and you’re on the Web, in what we now call the cloud, where all your stuff lives: all your photos on Flickr, a long trail of your daily foibles and frustrations on Twitter, your purchasing history on PayPal, your prolix unpublished novel on LiveJournal, your music collection on Rhapsody, and the stuff that might be a little embarrassing if your coworkers came across it on Facebook.”

- IEEE Spectrum, January 2010

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Past truths about academic technology aren’t now

Steve Ehrmann from national TLT Group

“... over the last several decades, the set of ‘common sense’ beliefs [about instructional technology] ... led to a certain amount of progress but at a gigantic cost (including many frustrated hopes).”

http://bit.ly/ten_things_table

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10 things Ehrmann no longer believes

1. Attract attention, students, and money by being the first to buy the new tech and to identify your program with it.
2. Use computers to increase test scores.
3. Improve enrollment via distance learning.
4. To help your program’s bottom line, offer distance learning.
5. Make work easier; save time.

...

- 11, 12. Evaluation should be mainly summative and done as late as possible.

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The no-longer-believe list evolved

Some recommendations

Instead of a centralized crash program, make a slow and sustained effort, composed of many small, timesaving, and often inexpensive steps taken by individuals.

Improving Higher Learning by Taking the Long View: Ten Recommendations about Time, Money and Technology

<http://www.tltgroup.org/strategies/10Recs.pdf>

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Two more recommendations

- Use technology as a lever for change, but rely on technology that has become so easily and widely used that people may not think of it as "Technology" anymore.
- Use the technology in ways that save faculty and students time in the short term, while enabling them to transform key academic activities in the long run ...

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s/jobs/college/ ?

"... 162,000 new jobs added in March. When this bright news is blended with the recent Conference Board study showing that employee dissatisfaction is at an all time high (less than half of Americans are satisfied with their jobs, down from 61% in 2005, and workers under 25 are especially dissatisfied), it suggests that a lot of companies and bosses better come to grips with the fact that many of their best people are laying in wait, patiently grinding out the days, but will dash for the exits when the job market gets better."

-- Bob Sutton's blog, 3 April 2010

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The "specialists"

"As it has with industries from music to news, the logic of digital technology will compel institutions to specialize and collaborate, find economies of scale and avoid duplications," journalist Anya Kamenetz wrote last week in an op-ed. "Excellent [course] content," noted the author and higher-ed innovator Peter Smith in an interview earlier this month, "is increasingly commodified and available."

<http://www.insidehighered.com/news/2010/04/05/statistics>

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DIY University and satisficing

