The Perfect E-Storm: Emerging Technology, Enhanced Pedagogy, Enormous Learner Demands, and Stagnant Budgets

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Four Storms are Approaching:

1. Emerging Technology
2. Escalating Demands
3. Erased Budgets
4. Enhanced Teaching

Some are scared of the storm!!!

I'm a librarian

Ok, Million Dollar Question: Which technology will impact schools the most?

Storm 1. Emerging Learning Technologies
1. Assistive Technologies
2. Blogs and Online Diaries
3. Digital Portfolios
4. Electronic Books
5. Online Communities and Learning Portals
6. Intelligent Agents
7. Online Exams and Homework
8. Online Games and Simulations (Massive Multiplayer Gaming)
9. Online Translation Tools & Language Lrn
10. Course Management Systems
11. Peer-to-Peer Collaboration
12. Reusable Content Objects
13. Videostreaming, IP Videoconferencing
14. Virtual Worlds/Reality
15. Wearable Computing
16. Wireless Tech: Tablet PCs, Handheld Devices
Myth #1.
I must have a technology background to use effectively.

Trend #1. Course Management Systems

Trend #2: Wireless Technology

Trend #3: Mobile Technology
The gadget is an all-in-one handheld device that allows users to view full-motion video, music, and record voice messages in real-time images and play games.
Trend #4: Reusable Content Objects

"Learning Objects are small or large resources that can be used to provide a learning experience. These assets can be lessons, video clips, images, or even people. The Learning Objects can represent tiny "chunks" of knowledge, or they can be whole courses."

Claude Ostyn, Click2Learn

Trend #5. Wikipedia (Jimmy Wales, Founder)

Trend #6. Electronic Books

Trend #7: Blogging

Trend #8. Collaborative Tools

Trend #9: Virtual Worlds/Virtual Reality/MMOG
Trend #10: Synchronous Conferencing

#11. Computer Grading

Free Online Resources:
Public Library of Science

Museum of Online Museums

Digital Libraries (LibraryShare)

Tufts OpenCourseWare Project
What about negative technologies?

Within 2 weeks!
No Study Required!

Order yours today!
Just call the number below.
You'll thank us later...

-1-866-999-0021

Stop Badware.org!!!!
(Chronicle of Higher Ed, January 26, 2006)

Monty Python Spam Song

What can we say about emerging technology then???

- It is everywhere!!!!!!!!
- Resistance is futile!!!!!!!

How many have ever felt that they hit the wall as far as teaching online?

On to Storm 2...
Escalating (Learner) Demands

Myth #2. We can just wait it out—it will go away
Peak Consulting, an educational consulting group, estimates:
- 1 million American high school students are currently taking Internet courses in 2004-05
- 571,000 in 2003
- 378,000 in 2002
- More students log on to learn, Boston.com, Peter Schworm, September 16, 2004.

Generation Raised on the Internet Comes of Age, MSNBC, Dec. 13, 2004, Martha Irvine

- For 21-year-old William Herbert, the Internet has replaced newspapers and TV weather reports (he visits Weather.com every morning). He pays his bills online, registers for classes, books airline and train tickets, checks TV listings, buys movie tickets and gets travel directions.

Indiana Univ (8 campuses): Spring 2005
Students: 89,413 loaded; 78,549 logged in (88%)
Faculty: 7,014 loaded; 5,441 logged in (78%)
Courses: 22,419 loaded; 9,206 active (41%)
African Virtual University

Even Shaq is taking courses online!

2005 NBA Playoffs

Shaq joins University of Phoenix grad

Myth #3.

My school or university cannot afford online learning.

We're in the Midst of Storm 3:

Erased Budgets

Center for Ed Tech
Interoperability Standards, Nov. 24, 2003
http://www.cetea.ac.uk/content2/20031124150257
http://www.sakaiproject.org/sakaiproject/

eSchool News, January 1, 2004
Average Budget Slashed from $13.9 to $10.4
Internet degrees a disgraceful waste, say MPs

By Harriet Harmer, education editor
Thursday March 2, 2000
Six Chronicle

A government initiative to offer British university degrees online has been slammed by MPs today as a "wasteful" use of public money after it recruited just 500 students at a cost of £50m.

An investigation by the Commons education select committee found that only one in ten students in the UK are university students in the UK who failed last week to meet their final year deadline. The initiative aimed to provide full-sized university degrees at a cost of £50m to students at a cost of £50m.

In the Midst of Budget Cutbacks, there are Technology Giveaways

A new technology giveaway is being offered to students at Winchester University, enabling students to access a range of online resources and training materials. The initiative is aimed at providing students with access to a range of online resources and training materials.

On to Storm 4: Enhanced Teaching (and Excellent Retention) (a swirling storm)

Myth #4. There are no models or best practices for teaching with technology.

Three Most Vital Skills
The Online Teacher, TAFE, Guy Kondsho-Bell (April, 2001)

- Ability to engage the learner (30)
- Ability to motivate online learners (23)
- Ability to build relationships (19)
- Technical ability (18)
- Having a positive attitude (14)
- Adapt to individual needs (12)
- Innovation or creativity (11)
Myth #5.
Teachers can just teach the same way they always have.

24 Online Pedagogical Examples that are not boring!

1. Educational Simulations, Scenarios, and Manipulations

2. Financial Accounting (University of Calgary)

3. Link Book and Field: Internships/Field Experience Job Interviews
   1. Instructor provides reflection or prompt for job related or field observations
   2. Reflect on job setting or observe in field
4. Real World Problems (PBL online): Real-time Cases

5. Apprenticeship: Electronic Guests & Mentoring


7. Flash Visuals and Animations (e.g., Statistics, Cash Flow, news, etc.) eCollege Wales, Univ. of Glamorgan

8. Exploration and Demonstration: Virtual Fieldtrip (Trinity College example)

9. Fostering Info Exchange: Critical/Constructive Friends, Email Pals...
10. Practitioner Feedback:
Asynchronous Threaded Discussion
plus Sync Expert Chat (e.g., Starter-
Wrapper + Sync Guest Chat)

11. Online Role Play of Scholars,
Personalities, or Famous People
- Enroll famous people in your course
- Students assume voice of that person for
  one or more sessions


13. Video Library of Concepts,
Cases, or Experts

Video Paper Builder

15. Cross Cultural Exchanges and
Goal Driven and Product Based:
PBL: Tourism Mock Tours
16. Online Resource Libraries

- Online Resource Libraries (ORL)
  - Student Online Resource Libraries (SOL)

17. Reuse Chat Transcripts

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  - Chat Transcripts
  - Chat Transcripts 2006

18. Online Data Collection
   Survey Research
   (e.g., WebSurveyor, Zoomsur, SurveyShare, SurveyKey)

19. Basic Acoustics of Musical Instruments

20. Tests Online
   (e.g., resources for self study in anatomy)

21. Learners Producing Product
    Pod Casting Broadcasts (Adam Curry)
    www.dailysourcecode.com

Internet Radio 101

Podcasting Internet Radio

Internet Radio 101

Introducing Internet Radio, the "Podcast" or "Podcasting" is the new way to listen to radio. It's like listening to music on your computer, except you can do it whenever you want. Internet radio shows are like podcasts, but they're not just audio files. They can be pictures, videos, or even data feeds. You can subscribe to them and get all the new content as soon as it's available.

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22. Online Modeling: Watch Expert Performances (Music, Cyber Fashion Shows, etc.)

23. Virtual Surgery

Online-Surgery

The Cyber Surgery program allows students to join a medical team and perform virtual surgery.

John Robertson MP

24. Electronic Portfolios

The End...Remember

Recap of the Perfect E-Storm....
1. Emerging Technology
2. Escalating (Learner) Demands
3. Erased Budgets
4. Enhanced Teaching

Any questions, comments, or concerns?