A Discussion of Technology Trends and Research Gaps in Higher Education



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Poll: Which of these is the most important? (pick one)

- 2. Blogs and Online
- OpenCourseWare and Open Educational Resources
- 4. Digital Books
- Social Networking Technology
- 6. Intelligent Agents
- Wikis and Wikibooks
- Online Games and Simulations (Massive Multiplayer Gaming)
- 1. Assistive Technologies 9. Shared Online Video (YouTube, TeacherTube)
 - 10. Peer-to-Peer Collaboration
 - 11. Reusable Content Objects and Portals
 - 12. Videostreaming, IP Videoconferencing
 - 13. Virtual Worlds/Reality
 - 14. Wearable Computing
 - 15. Wireless Tech: Tablet PCs, Handheld Devices
 - 16. Digital Portfolios



1. New Online Search Technology (timeline, map, etc. oriented)





3. Mobile Learning



- · 50 million iPhone users and 85,000 applications.
- · Pull yourself away from that iPhone and read this STOTY, By Mary Brophy Marcus, USA Today, October 5, 2009





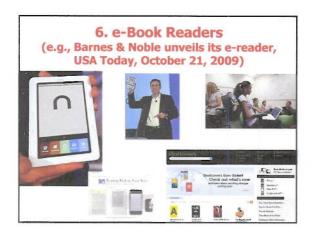






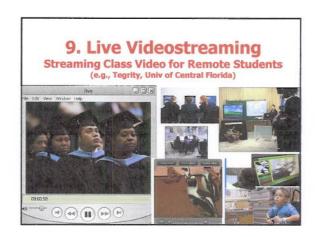






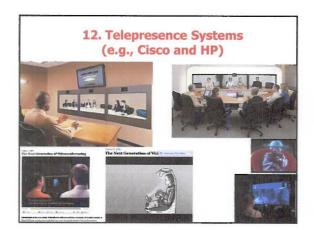


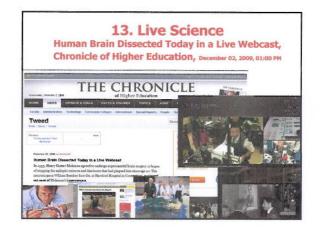


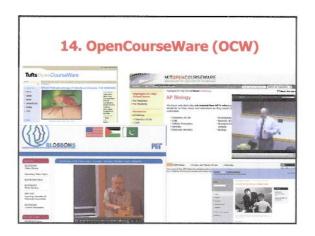


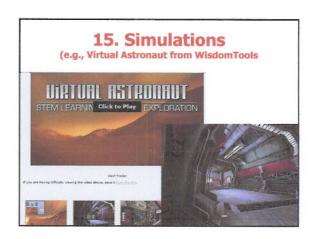


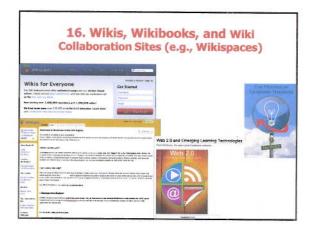








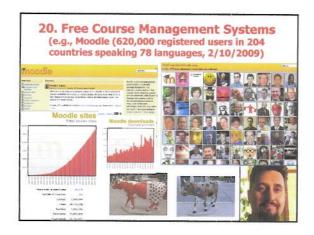


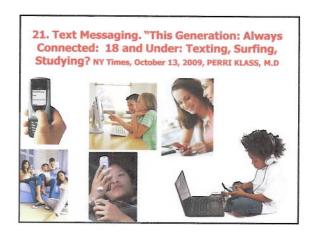


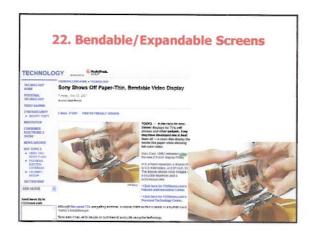


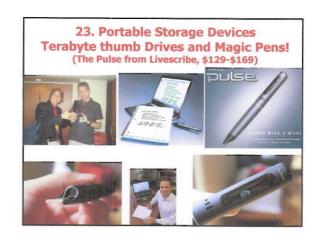


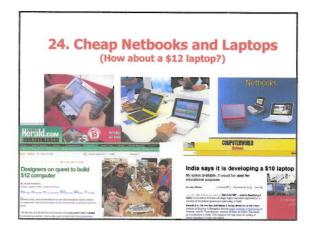


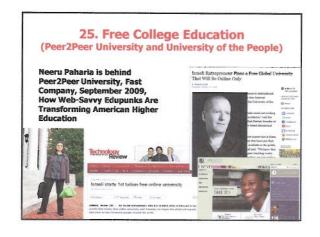


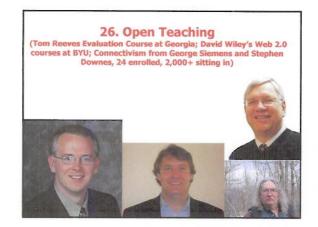


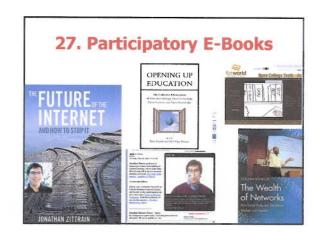


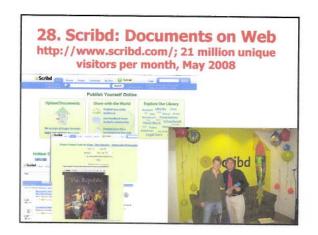




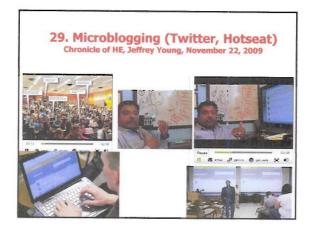






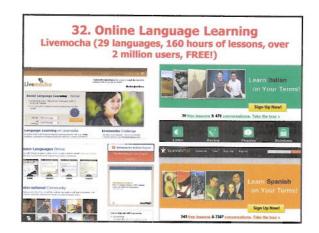


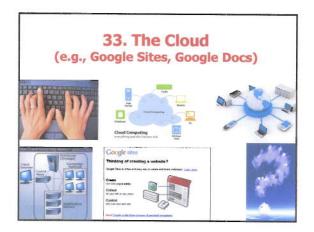


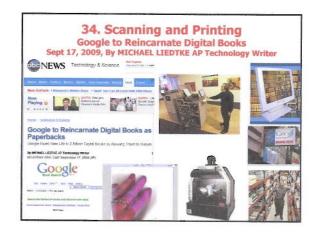


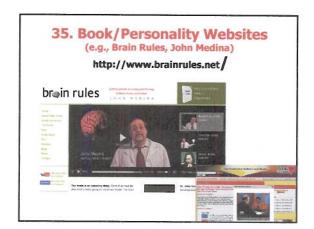










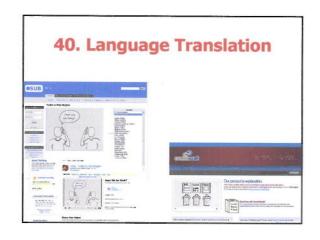


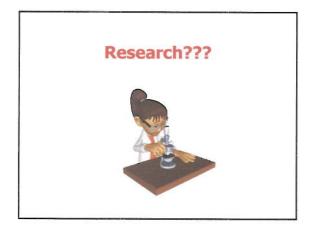


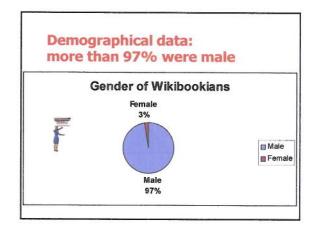


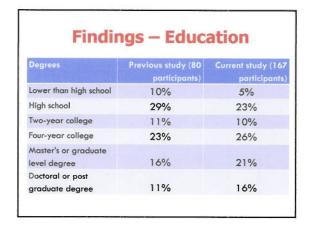


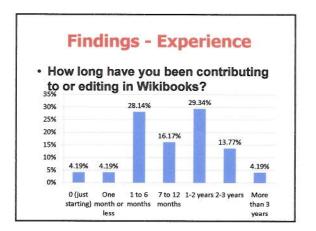






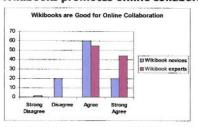






Findings from Surveys (cont.)

 Collaboration: 99% of Wikibookian Experts and 80% of Wikibook Novices agreed Wikibooks promotes online collaboration.





Instructional Issues

- a. Status (part-time or full-time), backgrounds, expectations
- b. Student control over posting
- c. Coordinating peer interaction
- d. The degree of scaffolding/structure
- e. Timing of collab, feedback, interaction
- f. Coordinating schedules across institutions
- g. What is learning? How assess it?
- Instructor control and risk taking
- i. Reusability of wikibook
- j. Meta-reflection about wikibook principles
- k. Motivational techniques

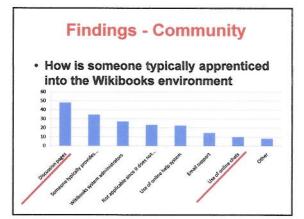
20 Tensions of Cross-Institutional Wikibooks and Suggestions

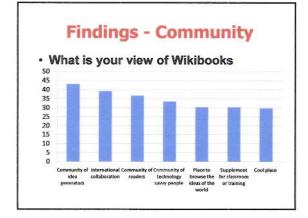
Sample Tensions

- Experimentation vs. impact
- Global ed impt vs. time
 New benefits of tech
- 3. New benefits of tech and wikis vs. frustrations
- 4. Open ended vs. guided learning
- Inclusive projects vs. realities of schedules
- Intrinsically valuable vs. external rewards

Ideas and Suggestions

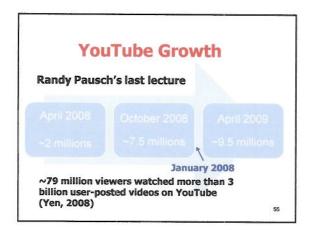
- Modeling, archive prior work
- Plan, check calendars
- Test Technologies, ask students what they use
- More participants, more open-ended
- Check schedules, get written commitments
- Experiment with rewards; more participants > interaction

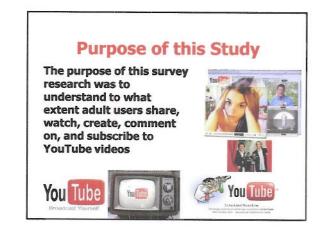


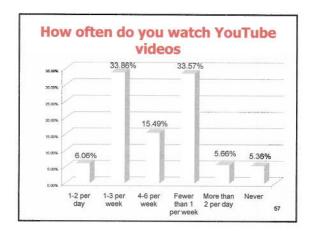


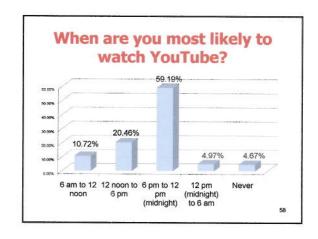
Future research

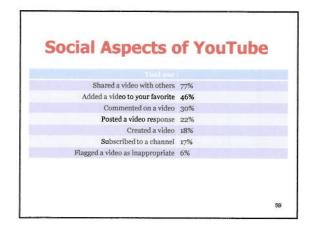
- Asynchronous apprenticeship
- In-depth ethnographical understanding of the lived experience of a Wikibookian
- Communicate with Wikimedia foundation; suggest improvements of tools; keep monitoring changes at site

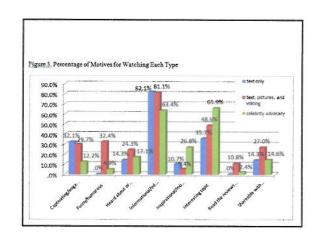


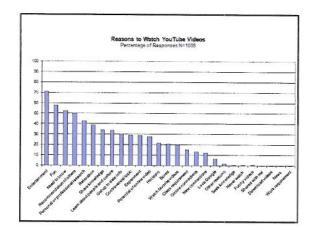


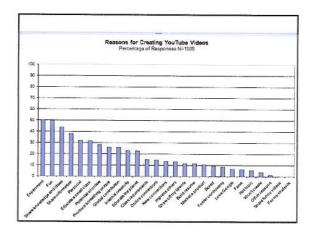












Discussion

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