Illinois Computing Educators (ICE) Conference Presentation

Teaching and Learning with Technology
Presenter Notes, Kymberli Mulford

1) Disparity among higher education institutions and even more among the colleges and majors
2) Opinions of HOW WELL technology is integrated vary, even within one institution, depending upon who you talk to.
3) Often, administrators paint the best picture of their institution's technology integration
4) Faculty are often the least interested in embracing technology, and this often is due to their belief that their subject matter has not really changed much, nor should the methods of delivery change by necessity.
5) However, if you speak to students -- our clients -- you hear a very clear message.
    1) Student
    2) Student
    3) 1-to-1 laptop initiative that my team rolled out in Schaumburg 12 years ago -- those 3rd-6th graders are now in college. Children who used a school-provided personal MacBook on a daily basis during school and for homework are now sitting in your classrooms.
6) Colleges and universities that want to succeed in the changing marketplace need to embrace technology integration at a variety of different levels:
    1) Using technology while teaching in a traditional setting (examples)
    2) Using technology to enhance teacher-student interaction (examples)
    3) Using technology to deliver content and seat time to differentiate for learners
    4) Using technology to deliver ALL content (100% eLearning online), with teacher-student interaction also accomplished via tools like Blackboards, etc.
7) In every institution, you will find a wide range of abilities in regard to technology integration. In almost every single workplace today, you will find that spectrum -- from the frontrunner-early-adopter-pioneer to the tentative-experimenter-who-could-use-a-little-help-when-they-get-stuck to the No-Way-thankyouverymuch-No-Technology-Here
8) Of course, the levels of support required for these people are very different.

Tried-and-True Approach for Reticent Faculty:

Successes and Failures...

Failures only occur in a few instances, all of which can be prevented.
    1) Equitable access is not attainable, maintained, updated
        1) hardware not available in adequate numbers... or
        2) BYOD hardware has not been accounted for, and access to content fails due to lack of platform compatibility, etc.
        3) Network bandwidth fails to point that objectives cannot be accomplished

    2) Teacher/professor undertakes tech project without full readiness for
        1) student understanding of objectives/purpose/assessment of task

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          2) time required to accomplish the tech integration (in or out of class)
          3) time-effective manner of assessing results, providing feedback

Successes
      All built on relationships
          1) Seen as an outsider -- and worse yet, one with an agenda
              Tech Integration is viewed by teacher/professors as something PUT
              UPON THEM, an unnecessary evil

          2) Constant but gentle persistence -- via e-mails containing links of
            interest, through hallway/parking lot conversations
              (Invasive Species, marine biologist, Red Wave, Skyped in)
              RELATIONSHIPS - me and PLN to teacher... expert to students

          Just-in-Time Learning... Gerri

          Web 2.0 tools in students' hands... bank of How-To links... frees teacher
              but enables students to manipulate the info, make meaning of it,
              demonstrate their knowledge -- and often create something NEW
              BibMe...   FreeRice/Facebook Likes...

          Planned Contagion... Edmodo
               Jeff O'Hara... Illinois Computing Educators conference PLN Plaza
              Facebook-like environment in which teacher controls the space
              Kids respond to it BECAUSE it's so very like Facebook...
              HERE's an assignment that speaks their language!
                  First shared it with a few teachers at a department meeting
                  "Famous historical figures on Facebook"
                  ... almost a full year later, one teacher asked me for help

"As an indicator, the National Center for Education Statistics found that in 1994, only 35 percent of American public schools had computers. By 2002, that number had climbed to 99 percent.

Today's students, comfortable with the tools of their trade, might see the university classroom of 1991 as being not terribly different from the classroom of 1891."

-- Curt Hopkins, May 6, 2012

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Future U: Classroom tech doesn't mean handing out tablets

http://arstechnica.com/features/2012/05/future-u-classroom-tech/

Why BYOD Is A Disaster Waiting To Happen For Schools

Ryan Faas (1:34 pm PDT, Jun 28)

More practically, BYOD will create technical challenges. Most schools, particularly many public schools, have very limited IT budgets and are often understaffed. BYOD in any context raises the issue of supporting a wide range of devices. In education, where there are fewer resources and technology man-hours available, the impact will be more acute than in business.

Read more at http://www.cultofmac.com/176277/why-byod-is-a-disaster-waiting-to-happen-for-schools/#hpHtqiv5PWxCgge7.99

eCampus Learning, **January 28th, 2011**
Report predicts online learning explosion by 2015

The number of college students taking online college courses will equal the number of students who attend classes in a traditional classroom by 2015...

there will be more than 25 million postsecondary students taking at least one online course. But the more jarring statistic might be Ambient Insight's projections for traditional courses.

The number of college students taking traditional face-to-face classes will plummet from 14.4 million in 2010 to 4.1 million in 2015