

PKAL LSC Webinar
October 20, 2010
Joan K. Lippincott
Coalition for Networked
Information

A Question for You:

- When you complete your building or renovation project, will you have accomplished what you set out to do?
- How do you know what is needed?
- How can you assess what you have accomplished?



New campus - American U. of Cairo

Have you improved lighting, HVAC, technology, ambience?



The Link at Duke U.

Have you improved learning?



Group study room at Marriott Library, U. Utah

The Feedback Loop

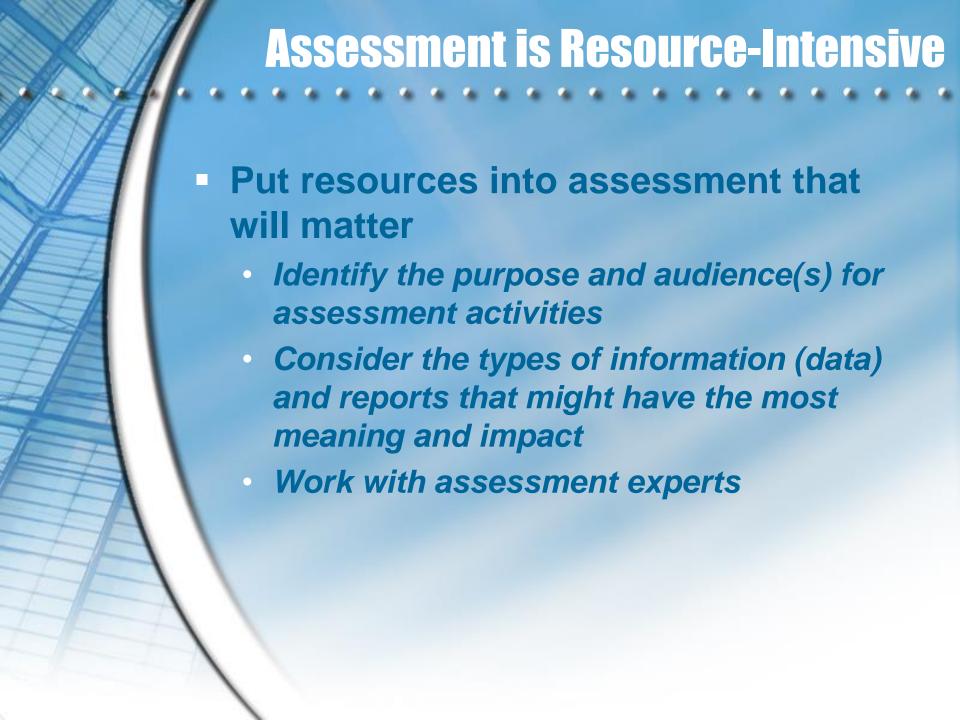
- Plan assessment from the beginning of your project
 - Include audits and/or needs assessment as part of the assessment plan
- Align assessment with project goals
- Operationalize your goals
- Collect the baseline data you may need



Focus on assessment of goals linked to institution's learning priorities

- Undergraduate research
- Student engagement
- Critical thinking skills
- New literacies
- Learning communities
- Community involvement
- Retention
 - Support for under-prepared students

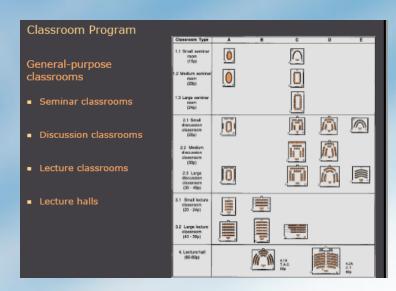
 Development of consol of community
 - Development of sense of community



Collect Baseline Data - Audit

Audit of spaces

- What is current size, configuration & utilization of teaching and learning spaces
- What types of spaces do faculty and students need for teaching and learning
- Can we develop classroom design guidelines for buildings or departments



Ellenzweig Assoc. "The Vassar Story" http://www.pkal.org/documents/TheVassarStory.cfm

Collect Baseline Data - Needs Assessment

- Understand community needs
 - Faculty, staff, students, neighbors
 - Encourage genuine engagement with community to understand needs
 - Look at behavior, not just numbers

ARL LEARNING SPACE PRE-PROGRAMMING TOOL KIT

Crit Stuart
ARL Program Director for Research, Teaching, and Learning

October 2008
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Institute changes that will inform your ability to enable faculty and students to get the most out of new spaces

2nd Phase Projects

LITRE 1st Phase Grants Program

2005-07Grants FirstWave Projects

Practices Directory

Technology Use

LITRE Reports

LITRE Organization

LITRE Assessment Overview

Technology

Surveys

MILLIE

VOLT

- An assessment program at NCSU
- Goal: Improve student learning
- Investigate technology-based innovation
- Develop appropriate policies
- Improve the physical learning environment







In January 2009, LITRE held a three day Campus Expo to highlight and share findings from LITRE projects and other learning environments. Along with four formal presentations and a student panel discussion, several faculty poster exhibit booths showcased exemplary examples of technology-enhanced teaching and learning.

In order to continue to disseminate information about these projects we have set-up this online expo, where viewers can access the presentations and exhibit materials.

ABOUT LITRE

"Learning in a Technology-Rich Environment" (LITRE) is an empirical research

http://litre.ncsu.edu/

Assist faculty in understanding the role of technology and the role of your space: Workshop at UPenn Weigle Info Commons

Engaging Students Through Technology 2010

We live today in a state of 'continuous partial attention'. Instant access to people and information can both engage and distract us. New tools break down classroom boundaries and change the nature of college education. This year's symposium explores the creative ways faculty are integrating technologies into teaching, the challenges they face, and the disruptive nature of mobile technologies in lecture contexts. The day's program will include faculty presentations, hands-on exploration and small-group discussions. The symposium was open to Penn faculty and instructors. Videos, presentation materials and photos will be posted shortly.

10:30 am to Noon Faculty Panel Cohen Hall Rm 402 Noon to 1 pm Informal lunch with presenters WIC Data Diner Van Pelt Dietrich Library Center

1 to 2 pm Student Panel and Tech Explorations Concurrent sessions Van Pelt Dietrich Library Center 2 to 3 pm
Disc. Group and
Tech Explorations
Concurrent sessions
Van Pelt Dietrich
Library Center

Faculty Panel - 10:30 am to Noon

Six ten-minute presentations on how and why a particular technology works with each person's teaching goals:



Regina Austin Student Created Videos



Andrew Lamas Visual Expression



Carol Muller Interactive Music Histories



Kris Rabberman
Online
Collaboration

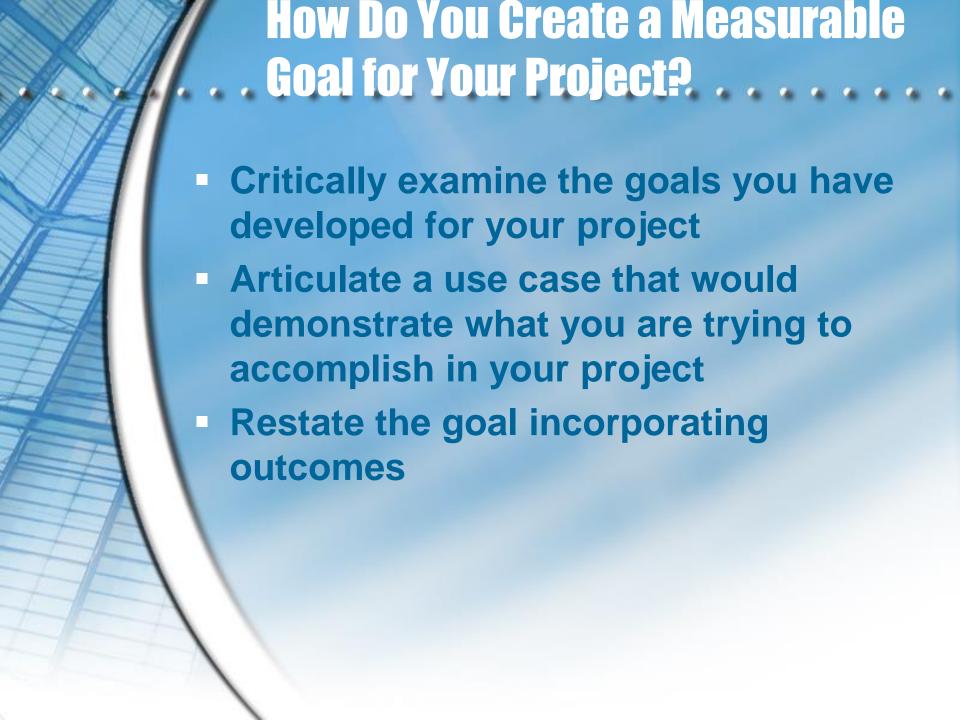


Ralph Rosen Facebook



Mark Yim Disruptive Technologie

http://wic.library.upenn.edu/wicshops/pennedutech2010.html



Refining Goals

- Stated goal: Develop spaces for interactive, collaborative learning.
- Restated goal: Develop technology-rich spaces for collaborative learning to provide an environment that encourages the social aspects of learning and enhances engagement in the learning process.

Assessing the Implementation

- Study of Intro Astronomy classes
 - Nationwide: 4000 students; 31 instructors
- How does instructional style in Intro Astronomy affect student learning?
- Single most important variable in explaining gain in learning was *interactivity*
 - Clickers: think/pair/share
 - Group work
 - Teaching and learning astronomy in the 21st century, Prather, E. E., Rudolph, A.L., & Brissenden, G., Physics Today, 62(10), 41-47

Implications for space: availability of clickers; capability of forming small groups for part of class time

Are You Accomplishing Your Goals? Some Questions to Consider



Stata Center - MIT

Does an active learning classroom help retain majors in Biology?



University of Minnesota

myU One Stop Directories Search U of M

Driven to Discover™

Search OIT

OFFICE OF INFORMATION TECHNOLOGY

Contact: dmc@umn.edu

212 Walter Library 117 Pleasant Street S.E. Minneapolis, MN 55455 (612) 625-8030

69 McNeal Hall 1985 Buford Avenue St. Paul, MN 55108 (612) 625-8030

DMC Home: Read Spotlight Issues: Issue Archive:

Active Learning (Flexible) Classrooms: An Innovative **Partnership Project**

By Deborah Alexander and Aimee Whiteside

Net-savvy students today arrive in college classrooms with much higher expectations of educational technology. They want to be constantly connected, and expect ubiquitous access to wireless and plug-and-play technology wherever they go on campus.

In light of these changes, the Office of Classroom Management (OCM) has partnered with the Office of Information Technology (OIT) to pilot two flexible learning spaces on the Twin Cities campus, Biological Sciences Center 64 in St. Paul and Electrical Engineering/Computer Science 2-260 in Minneapolis. These student-centered classrooms feature multiple display screens, document cameras, 360-degree glass marker boards, dual projectors, and round tables with laptop plug-ins for every three students.

Cognitive theory indicates that students are better able to actively process information when sensory stimulation, information exchange, rehearsal, feedback, and application opportunities are available. Flexible classroom spaces are thus designed to



Read our Exemplary Projects article, "Live-wired, Flexible Classrooms Energize Teaching and Learning," about how Maria Gini and Jennifer Gunn are teaching in the Minneapolis active learning

Campus Resources

The following campus services and sources may help you further explore how to design and teach in active learning classrooms:

CONSULTATIONS

Meet with a DMC consultant. See our Planning and Design and Evaluation and Assessment pages.

http://dmc.umn.edu/spotlight/active-classrooms.shtml

Are students able to effectively collaborate on projects in the space?



Learning Commons - Georgia Tech

Are you accomplishing your goal?

- Are marketing or education or communications students doing better presentations now?
- Aligning spaces and services



UPenn Weigle Info Commons

Are you accomplishing your goal?

Are International Relations and/or foreign language students able to do more in depth, current, engaging work here?



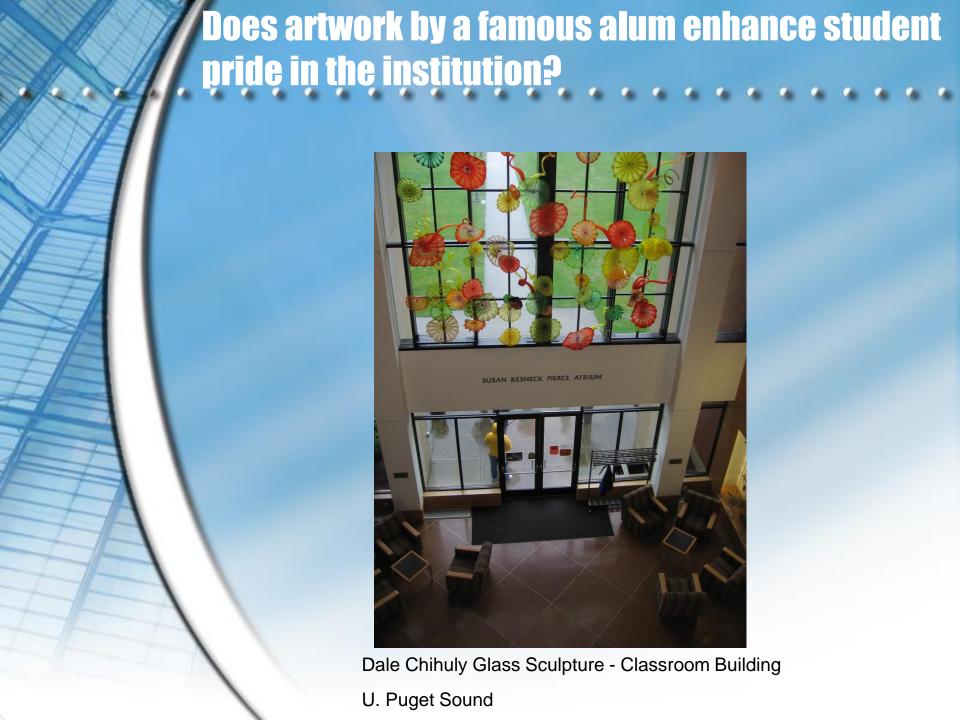
News Center - Dartmouth College Library

Are you accomplishing your goal?

- Do commuter students feel a stronger sense of belonging because of the availability of these spaces?
- Café U. Colorado,
 Boulder Info Commons
- Gaming station NC
 State Learning
 Commons

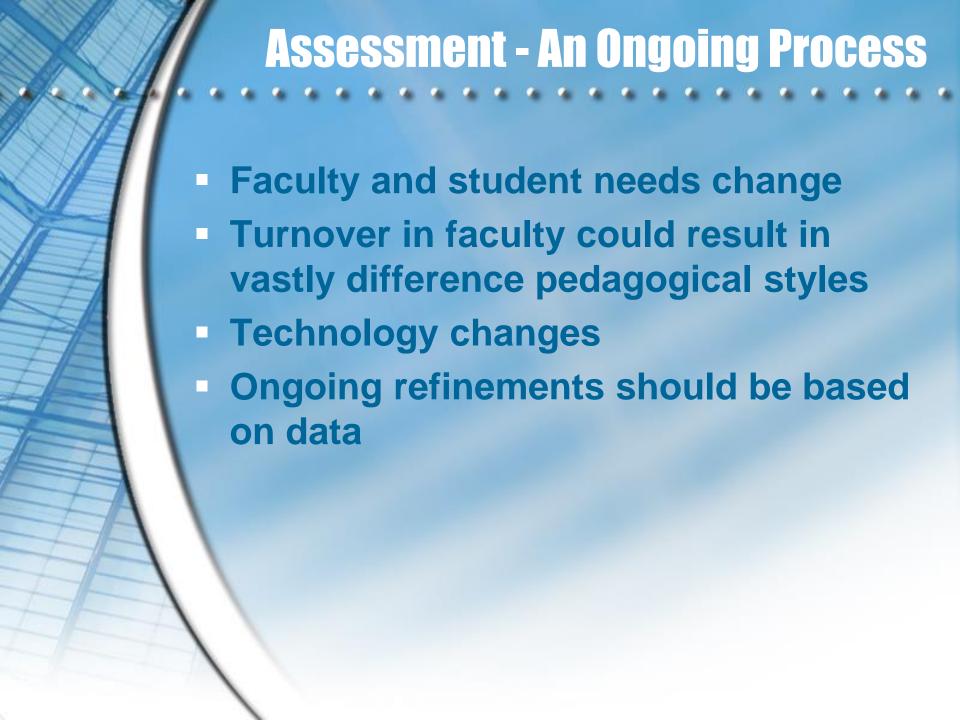






How to assess learning spaces

- Data collection
- Analysis of student work
- User surveys
- **Observation/Photos**
- Focus groups
- Case studies
- Interviews



Assessment Resources

Use available outside resources

- Project Kaleidoscope (PKAL)
- www.pkal.org
- EDUCAUSE Learning Space Design Website: http://www.educause.edu/LearningSpace/5521
- ARL LibQUAL+ ™ program
- www.libqual.org
- TLT Flashlight Project http://www.tltgroup.org
- Lippincott, Joan K. "Learning Spaces: Involving
- Faculty to Improve Pedagogy." EDUCAUSE Review
- Vol. 44, 2009 http://www.educause.edu

Thank you!

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http://www.cni.org/staff/joan_index.ht ml



The Link - Duke University