Designs for learning:

Changing Teaching and Learning Environments at CUHK

Teaching and Learning Expo 2009
23 October, 2009

**Prof Bob Fox & Prof Paul Lam,
Eric Ho and Wing Cheung, CLEAR**

- New opportunities for tailoring designs
- Why need new learning spaces?
- Learning Commons – what is it?
- Implications for CUHK
- Future classroom needs

Objectives of study

- Review existing T&L places at CUHK and report on their affordances for active learning
- Recommend changes to existing spaces and designs for new places
- Propose experimental classrooms and learning commons and study areas
- Evaluate effectiveness of pilot areas
- Report on appropriate re-purposing of places
- Report on design specifications for new T&L environments to meet needs for 2012 and beyond

Why new learning spaces?

- 3000 extra new students + double cohort
- Changing curriculum demands – KBE and 3+3+4
- Skills required: effective communication, computing and Internet skills, independent and interdependent learning, entrepreneurial skills, ability to take the initiative, be flexible, work in teams and network – as well as the usual subject matter expertise
- Changing student demographics (younger), increased numbers and diversity, a '*community*' space for non-resident students
- New opportunities, new buildings, new technologies

New learning spaces in universities

EDUCAUSE Quarterly Magazine, Volume 32, Number 1, 2009

A SPECIAL ISSUE ON ...
Learning Spaces

Research - evidence on how people learn (Bransford et al, 2000) and where they learn (Brown, 2003 & 2005)

Learning Commons

- A home for learning
- A quiet place for independent study
- A place to meet for group work
- A noisy place for interaction
- A place to make and trial multimedia presentations
- A place to relax & a place for eg Art student exhibitions
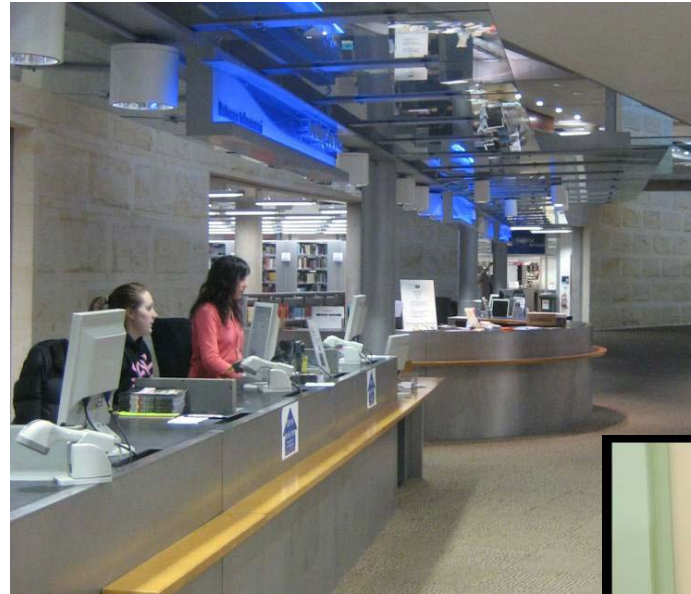- A place to get advice & help on project development, etc

What is a Learning Commons?

Cafe

Help Desk

Laptop Locker St Martin's College / University of Cumbria
This cabinet is used for temporarily storing laptops.
Laptop Lockers

Exhibition and Event Area

Diner Booth Group Study and Individual short-stay worktop

Diner Booth Group Study

Otago

Otago

Casual Study Areas
Natural light spaces

Otago
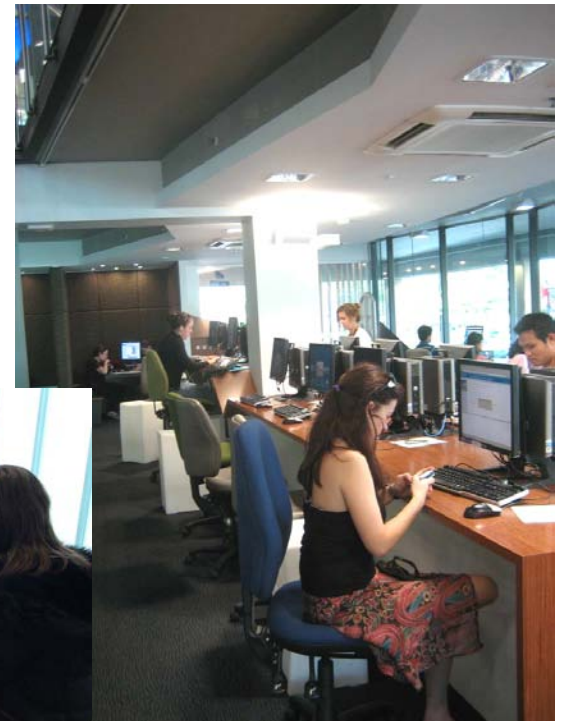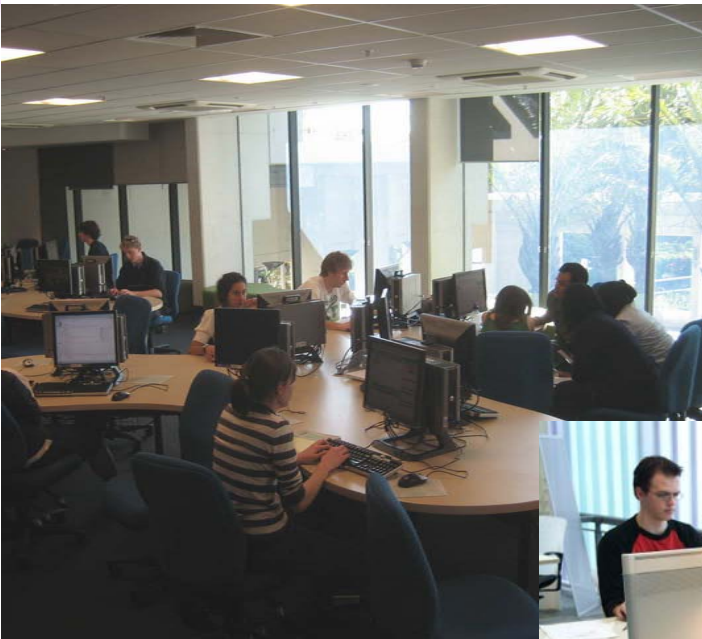

Otago

Curtin

Casual Study Areas

Otago

Individual Study Spaces

Otago

Warwick University 'Learning Grid'

Virtual tour http://www2.warwick.ac.uk/study/grid/users/firsttime/
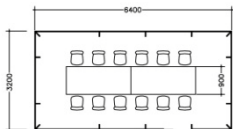
Computer Clusters

Lounge and Casual Seating

Group Study Rooms for 12 and 25 persons

Learning skills labs

Multi-media room

Consultation areas

Category	Item	Capacity	NOFA (s.m.)
Event Area	Lobby		280
	Exhibition		
	Open Area	100	150
	Café	120	360
Study Areas	Computer Clusters	475	1105
	Lounges	370	830
	Work Tables	160	290
	Individual Study Area	190	380
	Diner Boothes	146	325
Classrooms	Theatre	50	75
	Group Learning Rooms	432	690
	e-Classrooms	150	210
Central Resources Centre	Office		775
	Office for I.T. Support		
	CAUT		
	Staff Lounge		
	Language Center		
	Writing School	12	
	Special Needs Student Study Room	10	
	Video & Sound Recording Studio	10	
	Multimedia Center	30	
	Computer Lab	60	
	Copy /Binding Center		
	HKU Press		
	Consultation Area	37	

Category	Item	Capacity	NOFA (s.m.)
Utilities	Copy Machines		530
	Printing Stations		
	Laptop Charging Center		
	Vending Machines		
	Mobile Phone Boothes		
	Lockers		
	Info / Help Desks		
	Toilets		
TOTAL		**2,352**	**6,000**

Levels	Floor Area (sm)
+91	1,000
+96.5	3,420
+101.5	3,480
TOTAL	7,900

Sample Learning Commons Categories

Learning Commons

HKU Learning Commons: Cross Section

University of Leeds

Queensland University

Group study area, City University of Hong Kong

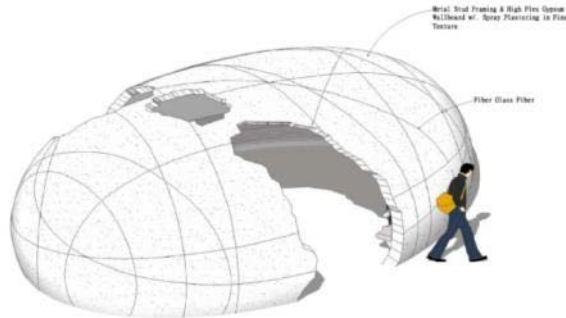Leisure area, City University of Hong Kong

Egg-shaped Group Activity Room
Movie/Educational Film Showing

Interactive Learning Zone
Group discussion rooms
Group viewing room
Language clinic/other facilities for collaborative learning

City University of Hong Kong

Interactive Learning Zone
(approx. 700 sq. m.)

City University of Hong Kong

Interactive Learning Zone

City University of Hong Kong

Interactive Learning Zone
City University of Hong Kong

Interactive Learning Zone
City University of Hong Kong

Informal Learning Places, CUHK

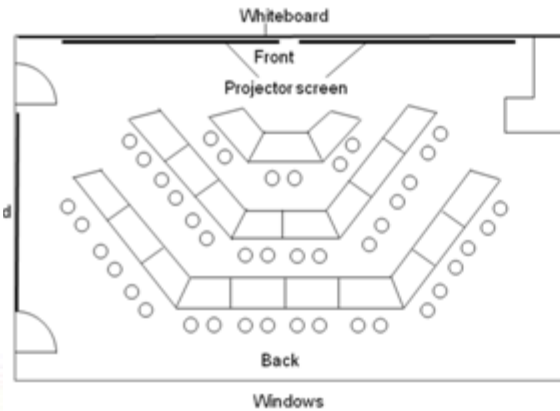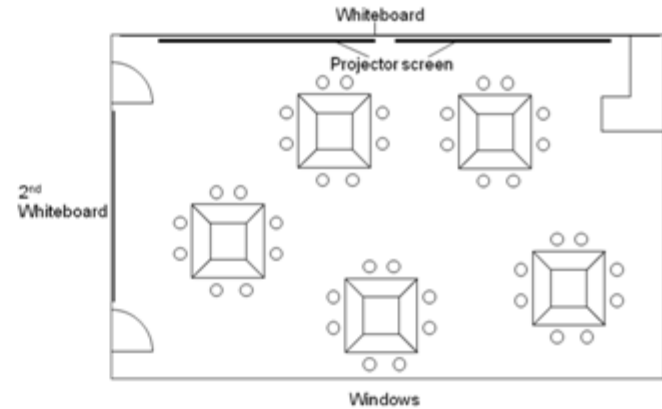**Esther Lee Blg**

Informal Learning Places, CUHK

TCW
Many places outside classrooms could be learning places

Classrooms of the Future, CUHK

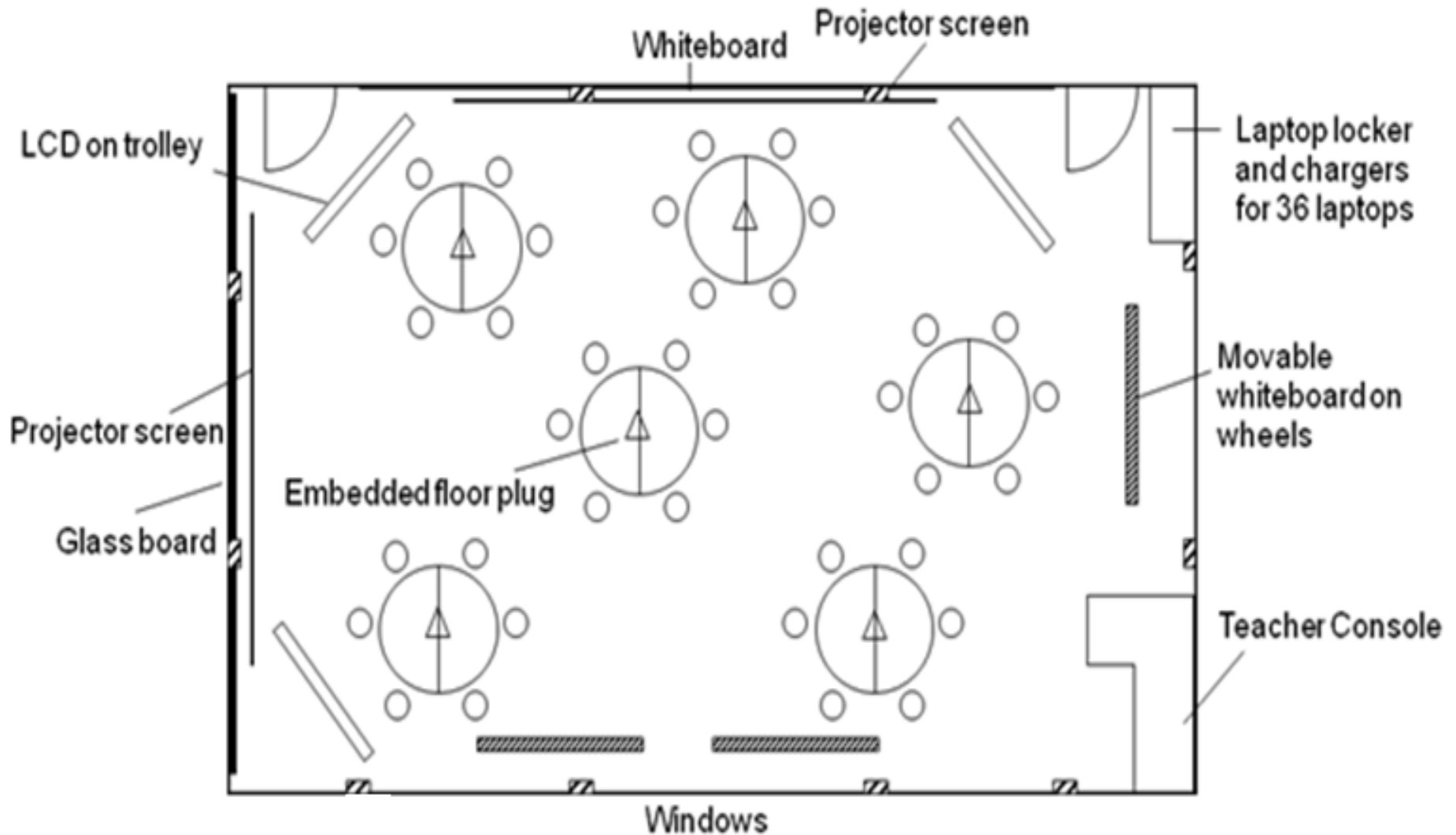Figure 6: Case-based presentation layout

Smart Classroom, Melbourne University

Smart Classrooms of the Future, CUHK

References

Bransford, J., Brown, A., & Cocking, R. (Editors) (2000). *How People Learn: Brain, mind, experience and school.* Washington, D.C.: National Academy Press.

Brown, M., & Lippincott, J. (2003). Learning spaces: More than meets the eye. *Educause Quarterly* **26**(1), 14-16.

Brown, M. (2005). Learning spaces. In D.G. Oblinger, D. & J.L. Oblinger (Eds.), *Educating the Net Generation.* (Boulder, Colo.: EDUCAUSE, 2005), e-book, available at <http://www.educause.edu/LearningSpaces/6072>.

Educause Quarterly Magazine (2009). *A Special Issue on Learning Spaces,* **32**, (1). Accessed 23 October, 2009 at http://www.educause.edu/EDUCAUSE+Quarterly/EQVolume322009/EDUCAUSEQuarterlyMagazineVolum/163844