Macro-Lab

Team Design Project
Group 8
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Felicia Ouyang, Kristin Tso, Jessica Rifkind, Anirudh Vemprala, Vanitha Virudachalam, Peng Xu
Blurring the lines

* Create an atmosphere that reflects the users of the lab, both past and present

* Encourage designers to think more about the people for whom they are designing
Create a space

* Group work is facilitated
* Innovation is encouraged
* Many disciplines collaborate
* Users are comfortable
for:

* Current students, potential donors, and prospective students

which is:

* Maintainable and sustainable
* Affordable
* Minimally supervised
What they said

26 people rated current spaces

- Seating
- Workspace variety
- Lighting
- Air circulation
- Layout
- Mobility
- Facilitates group work
- Availability
- Technical maintenance
- Ambiance

Results:
- Good: Seating, Workspace variety, Air circulation, Layout, Mobility, Facilitates group work, Technical maintenance
- Indifferent: Lighting, Availability, Ambiance
- Bad: Seating, Workspace variety, Air circulation, Layout, Mobility, Facilitates group work, Technical maintenance

Note: The chart shows the average rating for each category.
Level Two
Level Two
Design Continuum

animation sequence
Group Work & Displays

* Facilitates team work
* Exhibits and continuum draw people in from cafe
* Sensors record real-time information of lab usage
Instant Feedback

animation sequence
* Iris diaphragm installation in hallways

* Displays silhouettes of people walking through, currently and past

Images courtesy of http://www.fredericeyl.de/aperture/
Storage & Rentals
* Variety of options
* Ergonomic!
* Gadget rentals
Level One
Level One
Study Lounge/Fun Zone
Fun Zone

Couches
personal + group

Games
ping pong
foosball
pool

Fun/Inspiring Elements
fireman’s pole
spiral staircase

Vending Machines

Digital Screen
relaxing image
announcements
movie
Moving on...
Study Lounge

- Study Carrel
- Laptop Station
- Computer Station
- Foldable Carrel
- Adjustable Desktop Angle
- Adjustable Height
- Computer Station
- Adjustable Angle
- Adjustable Height
- Laptop Station
- Outlet
Level One
Group Work & Classes

* Space can be changed with partitions

* Section for getting user feedback on prototypes
Awareness of others
Color blindness

Variety of spaces

Better work zones
Smart Board
Paper Roll
Pod-like tables
Level Two
Prototyping Room

Machine Shop
Material Wall
Floor drains
Tool Wall
  Basic Tools
  Soldering irons
  Wood cutting tools, Laser Cutter
  FDM
  2 computers
  Art supplies
Material Wall

Sample

sample name: aluminum 1100-0
Density: 2.71 g/cc
UTS: 89.6 Mpa
E: 68.9 Gpa
k: 222 W/m-K

Metals, Ceramics & Plastics
Cyber Cafe
In Summary

* Blurring lines: between lab users and lab space, and between product designers and product users

* Create a practical, functional, and interesting space on the Berkeley campus
Thank you!