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Designing academic libraries in the digital age

Clarence Maybee
Purdue University, cmaybee@purdue.edu

Nanette Andersson
Purdue University, nanderss@purdue.edu

Karen Hum
Purdue University, humk@purdue.edu

Designing Academic Libraries in the Digital Age

Clarence Maybee

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Karen Hum

Purdue University Library
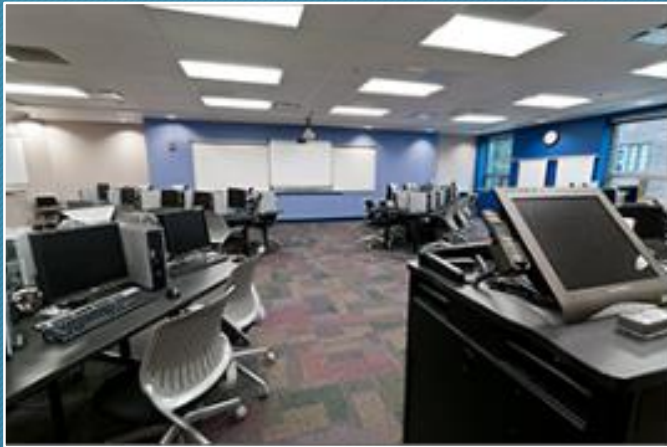
Institutional Context

Active Learning Course Redesign Program[1]

- Teams
  - 3 instructors
  - 1 librarian
  - 1 instructional designer
  - 1 instructional technologist

- Scope of Program
  - 289 faculty
  - 478 courses

13-Weekly Meetings

Photo by Tuhin Dey

Active Learning Classrooms in the Libraries

48 Seat Computerized Business Library

117 Seat ScaleUp Undergraduate Library

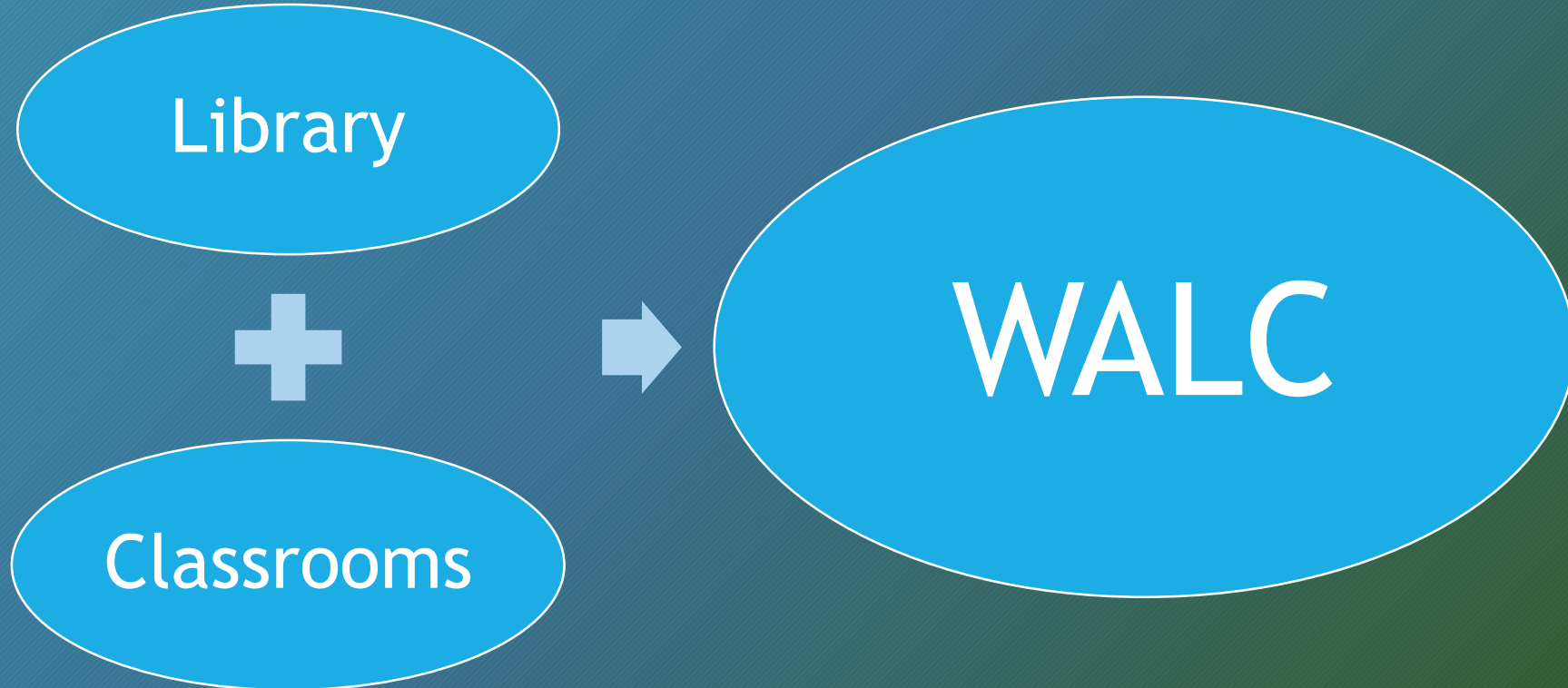54 Seat, 1 Monitor per Table Undergraduate Library

Participatory Design Study[2]

- Observations (twice a day for 2 days in 4 classrooms and adjacent spaces)

- Reply Cards (N = 41)

- Spot Interviews (N = 58)

- Design Workshops (N = 67)

- Interviews (N = 14)

Participatory Design Study Conclusions[2]

- ## Students…
  - Prefer to study in the library or in a library-like space
  - Work individually ❯ growing number work in groups
  - Want more Wi-Fi, outlets and chargers
  - Need different spaces at different times of day
  - Prefer serious work-focused spaces

- ## Spaces…
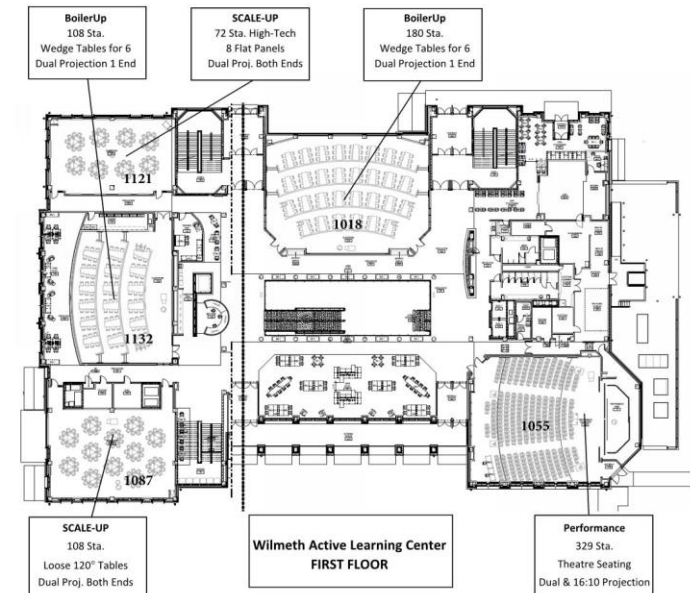 - Seem "full" at 50% capacity

Wilmeth Active Learning Center (WALC)

Ecotones

Wilmeth Active Learning Center

Wilmeth Active Learning Center

2017 Winning Video

Why I Love Purdue Libraries competition

By Cole Griffin & Anna Magner

Informal Learning Spaces

Reading Room

Work Area

Book Stacks

7 Types of Classrooms

- BoilerUp
- ScaleUp
- 6Round
- Eye to Eye
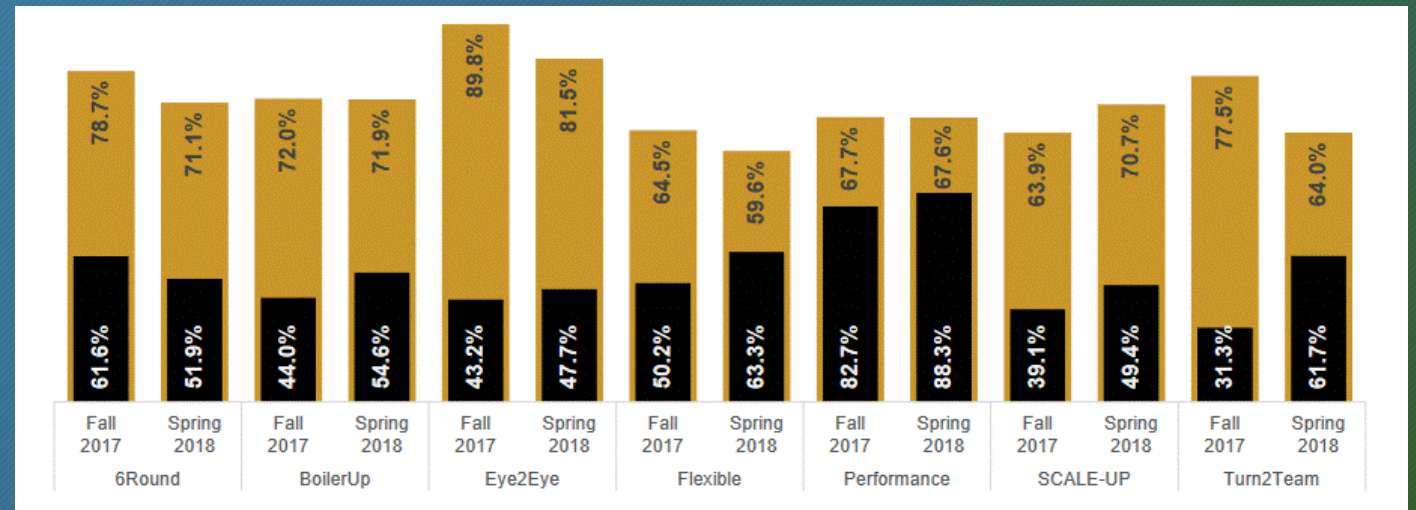- Performance
- Turn2Team
- Flexible

BoilerUp

Scale-Up

Informal Learning

- **Observations** (6 times per day for 5 days)

- **Reply cards** (2017-18 Academic Year, N= 1861)

- Patrons
  - 91% Undergraduates
  - 42% Engineering

- Why WALC?
  - 45% - Atmosphere/Design
  - 39% Central location

- Learning activities
  - 36% Study alone
  - 19% Group work

Classroom Utilization & Occupancy[3]

- First-year

  - 48.1% average room utilization
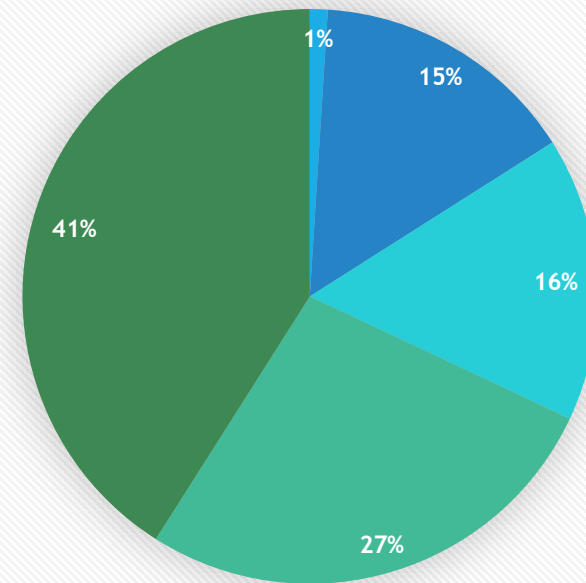
  - 65.6% average room occupancy

Average Utilization and Occupancy in WALC by Classroom Type, 2017-18 Academic Year

Legend: Average Occupancy, Average Room Utilization

Instructor Perceptions Of Classrooms[4]

- Surveys (2017, December, N=75)

- Spot Interviews (N=44)
  - 64% indicated a positive impact on student learning
    - 76% of which attributed it to student collaboration

Classtime Time Spent on Active Learning

Legend: 0% | 1-24% | 25-49% | 50-74% | 75-100%

Pie chart values: 1%, 15%, 16%, 27%, 41%

Future Directions

- Observational study

  - What kinds of active learning are happening in active learning classrooms?

  - How does the adjacency of formal and informal learning spaces impact on student success?

- WALC Data Collection Group

  - Libraries
  - Center for Instructional Excellence
  - Information Technology @ Purdue
  - Office of Institutional Research, Assessment, & Evaluation

Thank you!

Questions

- Architect – BSA Life Structures, Indianapolis, IN

- Photo credits of WALC – Teresa Brown, Purdue University

References

1. IMPACT Assessment Group. (2017). *Instruction Matters: Purdue Academic Course Transformation, Annual Report*. West Lafayette, Purdue University. Available at http://www.purdue.edu/impact/assets/documents/IMPACT%20Annual%20Report%202017.pdf

2. Fried Foster, N., Balser, T., Boes, R. L., Deputy, D., Ferrall, W., Fosmire, M., … Zhang, T. (2013). *Participatory design of Purdue University's Active Learning Center final report*. West Lafayette: Purdue University Libraries. Available at https://docs.lib.purdue.edu/libreports/1/

3. Office of Institutional Research, Assessment and Effectiveness. (2018). *Utilization of the Wilmeth Active Learning Center, Fall 2017 and Spring 2018*. West Lafayette: Purdue University. Available at https://www.purdue.edu/oirae/documents/OIRAE_Briefings/WALC_Feb_2018.pdf

4. WALC Data Collection Group. (2018). *WALC Data Collection Summary* (Internal report). West Lafayette, Purdue University.