EYP minutes

To:	Attendees	Date of meeting:	May 20, 2019
Project Name:	Bull Run Hall Addition	Time of meeting:	3:30-4:30
Project No.:	1019004.01	Location of meeting:	Sci Tech, IABR, Conf Rm 1004
		Meeting Number:	1.4

Meeting Purpose: Programming for Student Design Spaces

Attendees:

George Mason University:

- Ben Allen, ITS
- Crystal Clemons, ITS
- Oscar Barton, VSE
- Johnnie Hall, VSE Mech
- Shani Ross, VSE Bio-Eng
- Joyce Rose, VSE
- Peter Farrell, IST Faculty
- Laura Manno, Provost/Planning
- Colby Grant, Sci Tech Admin
- Debbie Brady, Facilities
- Virginia Steele, Facilities
- Joy Staulcup, Facilities

EYP:

- Melissa Burns, Academic Planner
- Brian Tucker, Lab Planner
- Rick Clarke, Lead Architectural Designer
- Rebecca Ross, Planner/Architect
- Suzanne Klein, Project Director

Minutes:

General Comments:

The group met on George Mason University's SciTech campus to discuss functional space needs for Bull Run Hall Addition and Academic VII Buildings. This meeting focused on needs specifically related to Student Design Spaces.

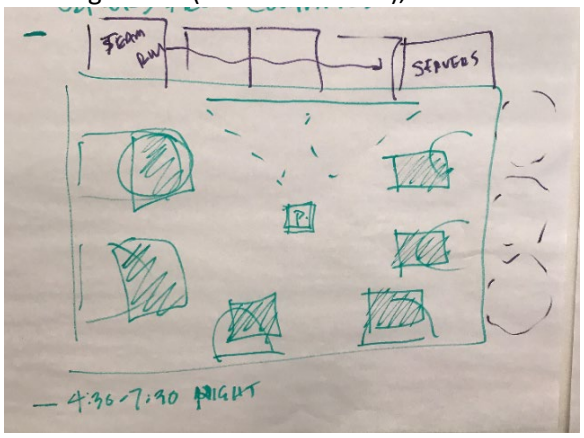
1. **Introductions:** Laura Mano provided an introduction of the design team EYP which was followed by introductions of all participants.
2. **Project Overview:** Laura explained that the Sci Tech campus will be a standalone campus and GMU is committing resources to make that happen. The first step is Bull Run Hall Addition followed by a 200,000gsf building, Academic VIII, listed as the number one priority to request capital funds. She asked the group to identify functional space needs to refine the program for the Bull Run Hall Addition and identify new needs for the expansion into Academic VIII.

   Brian and Melissa lead a programming exercise to list and describe each functional space type

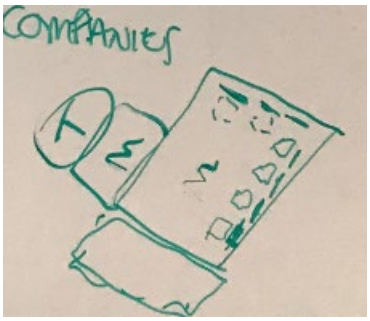
related to the student design spaces.

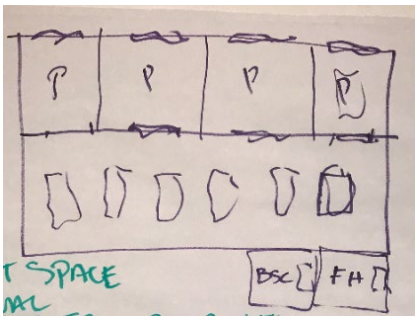
3. Oscar Barton from Volgenau School of Engineering provided a recap of the previous program session on Instructional Wet Labs and Support Spaces related to Student Design Spaces.
    - Design Competition and Product Realization Lab (PRADC)
        - Two semester capstone projects; students do majority of design fabrication in the spring semester.
        - Design Competition can start as early as summer.
        - Imagine overlap between the two; students will be working simultaneously
        - Product Realization is more defined in terms of study body.
        - Design Competition will have more teams throughout the year.
        - Oscar hopes to capture design competitions as a design elective instead of extracurricular in the future; that will help drive the utilization of the space.
    - Johnnie Hall is the Lab Manager for Innovation park in the current design space.
        - Currently not enough storage space for the legacy design competition projects.
    - Shani Ross mentioned Bioengineering overlap with Civil, Mechanical, Robotics, Computer Visualization and Health Education.
    - Oscar added that design needs to be contextualized and gave an example:
        - You can have a perfect pump with water, but once you get it to the site you need electricity.
    - Design Competition space needs to be BIG. Example projects include:
        - Baja vehicle (5'x6'), HPVC Competition, Formula 1 Car, Solar Car, Steel Bridge, Concrete Canoe, Battle-Bots Competition, Rockets.
        - Students currently working from home in their parents' garages on some of these projects.
        - Goal is to use College of Engineering facilities.
        - Plan for 4 rotating projects.
        - Brian drew a planning diagram on the board, and everyone agreed that the layout will work for engineering. (see diagram below)
    - Student rush to finish projects in April.
    - Storage space for projects and supplies needed
        - Working to develop a materials inventory "store house" (stock metal and equipment that students will need).
        - Large doors to get projects in and out of the building
4. Peter Farrell described the Information Sciences and Technology program needs.
    - Senior design for IST:
        - Collaboration space where students can put their work up electronically or otherwise keep it up for other people to see it.
        - Tie into the Business School and external companies for input on presentation and development of presentations.
        - Class size of 30 students (working in groups of 5)
        - Tables with computers and a screen dedicated to the table. Podium at the middle of the room.
        - Likes classroom in Exploratory – room L102
        - Conferencing Capabilities

  - Students presenting weekly and their final presentation the week before finals. (14-15 Sections)
  - Students are non-traditional. Classes are 4:30 – 7:30 Monday through Saturday.
  - Would like to include other majors if the class can accommodate more students.
  - Diagram shows flexible computer pods around the room, with adjacent separate teaming rooms (for 1-4 students), and an instructional server room

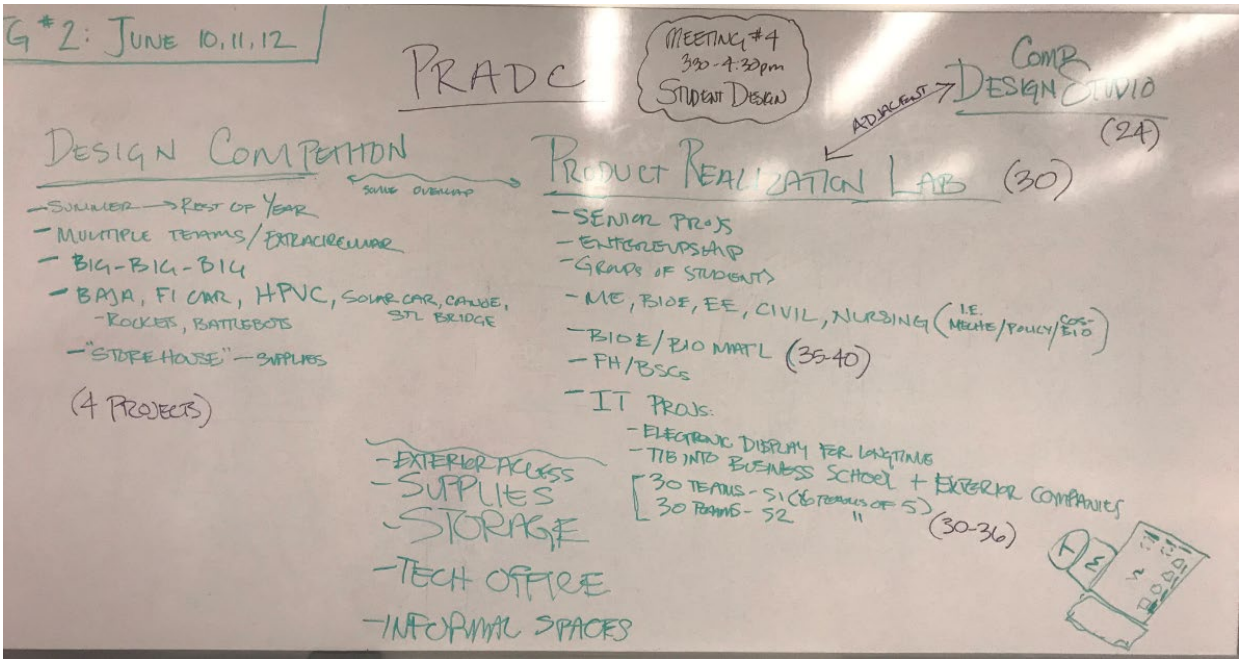


- Ability for a Sponsored Space
  - Dedicated servers (sponsors have offered but we do not have the space for it)
- Students are using laptops
  - Wireless Connectivity
- Laura mentioned the original program envisioned an instructional computer lab/student design space that could also become an event space with technology for any department.
  - Other departments can use a similar set up classroom.
  - Game Design potentially interested in event space for Game Demos, etc.
- Informal learning space for presentations
  - Consider people walking by and interrupting.
  - Reservable space that is somewhat open but set up for presentations.
- Brian described a concept of “Think, Model, Make” that EYP developed at Trinity University.
  - Students think and collaborate about design before they go to the lab to model it before going into a fabrication space.
  - Oscar said this concept is great for Engineering.
  - Diagram (left) shows adjacency of Thinking space to Modeling space to Making space; diagram (right) shows an open Product Realization Lab with adjacent separate Design Competition “Garages”





5. Other Synergies:
    - Shani described overlap with Bioengineering
        - Biomaterials, tissue engineering, (wet lab spaces that require fume hoods and biosafety cabinets) also need computing design space.
        - Melissa described a planning concept EYP utilized at TCNJ:
          Large Manufacturing space with separate adjacent bio alcoves with glass walls to monitor activities, but also have containment.
    - Computation Design Studio: Plan for 24 workstations to limit cost (high end machines)
        - Relationship to Product Realization Lab
    - Students need to be able to congregate after class (in a nearby space to the classroom).



End of Meeting

The above constitutes my understanding of the items discussed and the decisions reached. If there are any additions or corrections, please, contact the undersigned.

EYP® minutes

Signed:	Suzanne Klein
Cc:	Attendees
Date:	May 25, 2019