

Architecture CBF Committee
Official Minutes of Monday, December 1, 2008
Minutes Started at 12:09 PM

Attendees: Scott McColl, Tiffany Carlson, Guillermo Perez, Tom Einspahr, Corey Kawamoto, Cailin Swarm, Isshin Morimoto, Ramon Sanchez, Derick Lee, Mark Cabrinha

- Cabrinha on the 3-D scanner
 - Need to decide whether or not we want to buy it, because they stop selling the scanner as of December 24.
 - The company is not going out of business, simply focusing on their other products- medical scanning equipment
 - Another company, EMicroscribe, will be able to maintain the machine
 - Studios are beginning to focus on digital output, thanks to the CNC Router and laser cutter. Need to also focus on digital *input*. The 3-D scanner consists of an articulating arm and tip
 - Plots points in space, and imports data in to a 3-D program (compatible with multiple programs). It will be a good tool to bring physical models into the digital realm.
 - It requires the designer to become more analytical and understand their own work in order to use the tool.
 - A laser scanner attachment is also available. It costs \$17,000, and can be bought separately if the funds become available.
 - Recommends the \$8,000 model. Other companies sell a similar product for \$30,000.
 - Initially wanted the high-end \$12,000 model, but there is only a paper-thin difference in accuracy, but since it will be used for physical modeling, that accuracy is not necessary
 - Has a 66" reach, which is the biggest available from this company
 - Recommends a carrying case, in the event that studios wish to check out the equipment.
 - Would probably be best to situate in the laser-cutter room
 - This makes it a digital input/output center
 - Other optional elements:
 - Fixture plate kit- not really necessary
 - Set of extra tips (6 for \$400)
 - Still an issue of how to get access to 500 students
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- Questions:
 - Is this used in the workforce?
 - The main reason Gehry is able to do the work he does. Also used by Eric Owen Moss and others. A helpful tool when working with complex or curvilinear forms.
 - What is the warranty for the scanner?

A 1 year warrant. The only real issue that is very likely to need addressing is calibration over extended use. Probably need to be recalibrated every few years, and must be sent to Virginia to EMicroscribe.

- What does the laser scanner attachment do?
It provides a quicker process, but not an instant solution. It attaches to the device arm, and because of the large amounts of data, a dedicated computer would be necessary for the device. This laser continues to be sold, and will be available if we choose to buy it later.
- Why is the Microscribe scanner so much cheaper?
Made of heavy-duty plastic rather than metal. It also has a slightly smaller reach. For the price, best to get the cheaper model while we can.
- Is the Microscribe easy to use?
Yes. And website tutorials will probably be made eventually to help students.
- Will replacement parts still be made?
Yes, but we might as well buy a set of new tips now so that we have them.
- How will we maintain and protect the machines?
The laser cutter is easy to use, but can and will catch on fire without proper supervision. We need a lab manager to run it.
The CNC router is a more involved process with three parts. Again, a TA or manager is needed to control and review the steps.
The scanner is user friendly, but would also be better protected if a staff member of some kind were there to manage the room and machines.
A full time staff member would best allow access to students.

- Discussion

- More tips?
Will need them eventually
- Carrying case?
Not really necessary- it probably shouldn't be moved from the room.
- Accuracy
The higher accuracy is not worth
- Laser
We should wait on the laser and see if we need it. But keep it in the back of your head!

- Votes

- Should we spend approximately \$7,500 for the 3-D Scanner?
8 to 1 Yes- Vote Passes
- Should we spend \$3,700 for i-macs and a dell computer (required to run the digital machines)
Unanimous Yes- Vote Passes

- For future meetings- look into the plotter issue
 - Should we get a company to put a machine on campus or should we own our own machine?
 - Also, a large drum scanner

Meeting adjourned at 12:44 PM