Matt called the meeting to order at 10 a.m.

Motion (Kwiecien/Martin) to approve the minutes of the April 17, 2013 meeting without objection.

Consideration of Action Plans #1302, #1304 and #1308 for servers
A. #1308, Photorealistic Rendering Service. Ben Bernard, Architecture and Landscape Architecture. Primary reviewer Mueller discussed the project, noting that with the current system rendering of most images takes about 24 hours; two servers would be very helpful to this and other departments.
C. #1304, Remote Classroom Monitoring with Fusion RV. Micah McGowen, Information Technology Services. Primary reviewer McEwen discussed the project and recommended awarding one server.

Motion (Kwiecien/McEwen) to award one server to Action Plan #1304.
Discussion: the server would not solve the issue that a large percentage of problems are due to user error. Some errors do not get reported to IT by the faculty, so having a system recognize and anticipate such, and automatically notify IT, would help. IT is addressing the need for user education in classroom technology use by offering to faculty training in the newly repurposed IACC 150D training room.

If there is a loss in communication with a classroom technology component, the software that utilizes the requested server would make it immediately known, so it can be quickly fixed.

Vote on the motion to award one server to Action Plan #1304: 9 yes, 2 no, 1 abstention. MSC.

Motion (McEwen/Banister) to discuss Action Plans #1302 and #1308. MSC.

1. Discussion of #1308: the lab is used for rendering, 3-D scanning, and printing; if two jobs are programmed, each takes 100% of the server capacity. Great computing power is required for rendering. While a project is being rendered, other students cannot use the computer, since it is a Windows-based machine. If the priority assigned to a rendering job is reduced, the time of
the rendering increases. More servers would reduce the rendering time; ideally a 24-hour job would be reduced to two hours, with each additional server saving 30 more minutes.

Benefitted by the additional powers would be the 83 5th-year ALA students, as well as those in years two – five, for a total of approximately 250. Graduated ALA students get hired based on their portfolios and knowledge of software programs specific to the industry.

This request will alleviate the bottleneck. It is not an innovative project, but the new capability will help the students, and it would affirm the need for perhaps adding the cost to the departmental fee. Also, with additional servers the option to experiment with other capabilities would be possible.

In response to the suggestion that the project manager speak with someone who currently operates a similar lab, in an effort to determine if the bottleneck would be solved by making it possible for a job to be run through while a rendering project is underway, Ben Bernard replied that he has consulted with industries and other universities already, and their solutions are the use of additional servers.

2. **Discussion of #1302**: Robert Foertsch reviewed the project stating that a lot of doors would be opened with the enhancement of the department’s OpenStack infrastructure. A cluster is needed for OpenStack machines, rather than PCs. All Computer Science students who need access to the IACC 244 lab can get it upon request; this cluster can be used from anywhere.

   Included in the campuswide impact of this project is the direct benefit to some of the CS classes, one of which typically has 60-70 students; additionally, other departments can benefit from the increased web space.

   The first virtualization discussion between IT and CS took place in 2009. Since then, CS has implemented a lot of that technology, essentially serving as the sandbox for IT – this is a good partnership.

**Motion (Kwiecien/McEwen) to award Action Plans #1302 and #1308 with two servers each.**

[Stanley Kwiecien and Tyrell Martin left the meeting, at 10:50 a.m.]

**Discussion**: an advantage of virtualization is that it saves installation of programs on individual machines, and users get root access to work at the system level as needed.

[Anne Denton and David Wittrock left the meeting, at 11:00 a.m.]

The innovation aspect of Action Plan #1308 is that OpenStack is a fairly new technology and allows users direct access to the servers; also, since it is Open Source, there are no licensing restrictions.

**Vote on the motion to award Action Plans #1302 and #1308 with two servers each**: 5 yes, 3 no. MSC.

**Other business**

1. Jim Hammond reported that at today’s meeting of the College of Agriculture, Food Systems, and Natural Resources, classroom technology was discussed, with Pres. Bresciani stating that funding for such will likely not change in the coming fiscal year.
2. Ben Bernard offered to provide demonstrations of the low-cost 3-D printing available to campus by the department of Architecture and Landscape Architecture.

3. The NDSU Student Government’s new Commissioner of Technology, Sarah Russell, was welcomed.

4. Thanks and appreciation were extended to all student members of the committee who will not return next year.

The meeting was adjourned at 11:10 a.m.