

## **ATOEC**

Tuesday, April 5, 3:30-4:30pm, HUB119

### *Minutes*

Present: Robin DeRosa, Lynn Johnson, Meagan Shedd, Scott Robison, Zhizhang Shen, Anil Waghe, Joann Guilmett, Rich Grossman

Regrets: Gail Mears, Nicholas Sevigney, Dan Bramer, Francis Williams, David Zehr, Pam Childs,

- 1) Approve minutes—minutes accepted
- 2) Written reports & discussion: Will reconstitute work groups at September meeting—first meeting in the fall will plan to set work groups based on the needs of the committee
- 3) Verbal Reports:
  - a. ESCIS (Lynn)—didn't meet
  - b. Steering Committee (Robin)—nothing to report
  - c. PBLG (Gail)—officially disbanding and trying to figure out new role focusing on the leadership aspect; going to meet in the summer for two half day retreats to determine what the future of this group
- 4) Old Business:
  - a. Report on Whiteboard move (Scott)—Scott reviewed spaces; group wants to repurpose the Whiteboard into previous space; smartboard can be moved for \$200; phys plant would need to be contacted to move whiteboards; JoAnn to write email to Taani about process (will happen this summer based on availability of staff, before fall semester)
  - b. Report on Mary Lyon Cluster Decommission Dean Review (Gail/Jo-Ann)
    - i. Next Steps: Registrar, etc.—process is approved, need to notify registrar and relative to room inventory
  - c. Kilb TIP (Tabled from April): Update—Psychology will chip in half the cost, so new request is for \$631.81.—motion to approve; seconded, approved by all in attendance eligible to vote 7-0
  - d. DeRosa TIP (Tabled from April): Update—because of new Lamson Open Lab proposal, request is reduced to two laptops, approx. \$2400 total, or however many can be covered with remaining funds.—withdrew proposal based on update that 10 laptops will be available
- 5) New Business:
  - a. Consider new TIP Proposals
    - i. Lonergan TIP—proposal underestimates spec because it would need a better graphics card (\$2300 rather than \$1500), yes on service, Robin to communicate decision
  - b. New ATOEC Chair Lynn Johnson will begin position on July 1.
  - c. Summer projects:
    - i. Survey report—data coming from the survey about how technology is used by faculty to be put in a more useable format
    - ii. look at labs as they are going online—send email about looking at them during faculty week



## Technology Innovation Project Proposal Outline

**Your Name:** Phil Lonergan **Email address:** plonergan@plymouth.edu

**Project Name:** Computer Support for 3D Area in the Art Department

### Purpose and description of the project

Provide a purpose statement and a description of the activities and outcomes of the project.

*This request is for the university support and maintenance only of the computer for a period of 4 years. The computer will be paid for by Art Department funds. This computer will replace an outdated classroom computer (due for replacement (5 years old) but not covered by TAG funding). The computer will serve two functions:*

- 1. Baseline academic technology in a classroom- we use this for going over assignments on Moodle, student PowerPoint presentations, watching student video projects, looking at images of artists' work, looking at student images of art work, trouble-shooting student problems using free Autodesk programs such as 123D Catch, 123D Make, Meshmixer used for 3D printing and 3D modeling, teaching lectures and demonstrations.*
- 2. Computer will be used to run free PC-based 3D modeling software that does not run on Mac Computers. It will also run Kolor brand video stitching software to make 360 Videos and can be used to run the same videos on the Oculus Rift. This same computer can be brought to the gallery to display students' projects to the public. Also this computer would serve as a missing technology link in what is quickly becoming an open lab/maker space environment set in the context of a metal shop, wood shop and ceramics studio. Art Studios, especially 3D sculpture studios have been the original interdisciplinary maker spaces incorporating industrial materials and processes, video and performance.*

*During the last 3 years the 3D program has seen a dramatic increase in the use of technologies as we have struggled to keep up with trends in the field. Every semester for the last 3 years 2-3 sections (12 students each) of first year Art Foundations 3D: Materials and Meaning has done a 3D printed project (outsourcing the printing) that has used Free Autodesk software (123D Catch, 123D Make, Meshmixer used for 3D printing and 3D modeling). We have also done GoPro video projects in all Foundations classes and upper level sculpture classes.*

### Project Impact

Describe the impact of the project and how it will be reported including how students will be affected. Describe how the project is innovative and how it advances practice in the University.

*This computer will serve all Art majors across a wide variety of disciplines in our department (including both 2D and 3D studio art, Graphic Design, Art Education, and Art History. It also serves Gen Ed students through a Directions course. As the new openlab emerges in Lamson and the Arts & Technology cluster takes shape, we also hope that the increased development of video and VR projects in 3D Studio Art will allow for more partnerships between our program and CMS, MTD, and CS. Helping us support this computer will have an immediate impact on all students in the Art Department and will have growing impact across several interdisciplinary*

*collaborations. Digital technologies are changing the field Sculpture and art in general, and we want Plymouth State to be on the leading edge of this innovation.*

### **Shared Learning**

Indicate a commitment to share project results with the University and describe how this will be accomplished. Describe what you will report and how it will be shared.

*We plan to host an annual exhibition of students' digital projects (especially film), which will be open to the campus.*

### **Project Support**

Describe how technical support for the project will be provided. Is this provided by the project itself? By the ITS Helpdesk? By the CETL team? What technical support will be required to make the project successful?

*We are asking the University to support this computer as if it had been purchased through TAG funding.*

### **Budget**

Provide a detailed budget of proposed expenditures including estimated costs for technology and related costs for implementation. Describe how on-going costs and upgrades will be managed after the initial implementation.

*The Department would purchase this machine or equivalent for \$1512.00 (Including 24" Monitor). The university would support it for 4 Years. After this time hopefully the larger university will have new or adequate funding sources that will be available to provide both equipment and support, or the university will have fully transitioned to shared media spaces that we can use easily in our building, with proximity to our shop tools.*

[http://www.dell.com/us/p/xps-8900-desktop/pd?oc=ddcwgsk125hw10&variant=5985:U2414HCC\\_HDMI&model\\_id=xps-8900-desktop#overrides=ddcwgsk125hw10:5985~U2414HCC\\_HDMI](http://www.dell.com/us/p/xps-8900-desktop/pd?oc=ddcwgsk125hw10&variant=5985:U2414HCC_HDMI&model_id=xps-8900-desktop#overrides=ddcwgsk125hw10:5985~U2414HCC_HDMI)

## **System Specifications**

For the full Rift experience, we recommend the following system:

<b>Components</b>	<b>Recommended Specifications</b>
Graphics Card (GPU)	NVIDIA GTX 970 or AMD 290 equivalent or greater
Processor (CPU)	Intel i5-4590 equivalent or greater
Memory (RAM)	8GB+ RAM

Video Output	HDMI 1.3 video output
USB ports	3 x USB ports (2 of them must be USB 3.0 ports)
Operating System	Windows 7 64-bit (Service Pack 1) or newer

## Technology Innovation Project Proposal Outline

Your Name: Angela Kilb Email address: akilb@plymouth.edu

Project Name: Lifetime Learning Project

### **Purpose and description of the project**

Provide a purpose statement and a description of the activities and outcomes of the project

#### *Purpose:*

The purpose of this project is to conduct research on the memory changes that occur with normal aging. As the director of the psychology department's Lifetime Learning Laboratory, I work with undergraduate students to design memory experiments that involve collecting data participants of varying ages.

#### *Description of activities:*

We use computers to present information to participants to learn, and we also use them to record data on memory accuracy and reaction times during memory tests. Because some older adults are not able to find transportation to our lab, we sometimes go off-campus to collect data, which requires a portable laptop. In addition, we use divided attention tasks that require the use of 2 computers simultaneously in a confined area used for testing. The testing area is too small to accommodate 2 desktop computers, but can easily accommodate 1 desktop computer and 1 laptop. A laptop also affords us the opportunity to easily collaborate across disciplines (see next section).

#### *Outcomes of the project:*

Ten students have gained research experience by working in my lab, and 5 have conducted their own independent research projects under my supervision. All of them have either presented their work at regional conferences or plan to present within the next year. I'm currently working with a recent graduate to submit an empirical paper for publication in a professional journal. With a replacement laptop, I will be better able to maintain this level of productivity.

### **Project Impact**

Describe the impact of the project and how it will be reported including how students will be effected. Describe how the project is innovative and how it advances practice in the University.

This project has the potential to mitigate older adults' memory difficulties by identifying why their memories change with age and by developing tools and strategies to help them compensate for memory loss. Students in my research lab (see previous section) will gain valuable research experience and help report our findings on campus (see next section), student participants will see how memory research is done, and students in my classes will learn about the research findings that were obtained on PSU's campus.

The laboratory conducts multiple projects that are ongoing. While we have an enduring line of research that revolves around aging and memory, we also investigate topics of interest to students like false memory, misplaced confidence in memory

performance, and how bogus feedback or posture can affect people's opinions of themselves. A laptop offers the flexibility needed to complete a wide range of projects. Furthermore, having a mobile laboratory can greatly promote collaboration across disciplines. Our lab's research aligns with the Health and Human Enrichment cluster and could become part of an interdisciplinary approach to successful aging.

### **Shared Learning**

Indicate a commitment to share project results with the University and describe how this will be accomplished. Describe what you will report and how it will be shared.

**For the past 5 years, my student researchers have participated in the Student Showcase of Excellence that is held in the spring. They presented our findings on observed memory patterns in the form of research posters, which is typical for our discipline. This is a great way to disseminate large amounts of information, and we will continue to do this in the future.**

### **Project Support**

Describe how technical support for the project will be provided. Is this provided by the project itself? By the ITS Helpdesk? By the CETL team? What technical support will be required to make the project successful?

**Minimal technical support from PSU is necessary. Once the requested laptop is initially set up (connected to wifi, printers, and the lab's shared storage drives), I anticipate few technical difficulties. The software we use to collect data is supported through vendors and tutorials, and we have our own database for troubleshooting common problems.**

### **Budget**

Provide a detailed budget of proposed expenditures including estimated costs for technology and related costs for implementation. Describe how on-going costs and upgrades will be managed after the initial implementation.

**The reason I am requesting a new laptop is that my previous one has expired (after 5 years of use, the hard drive failed, and the laptop could no longer boot up). The cost of a replacement laptop is expected to be \$1263.02 (at the PSU rate, including shipping and handling). No additional software purchases are necessary, and there are no other known costs for implementation. I would use the requested laptop until it is no longer viable (estimated to be 5 years). At that time, I will submit another request.**

## Technology Innovation Project Proposal Outline

**Your Name:** Robin DeRosa **Email address:** rderosa@plymouth.edu

**Project Name:** Reserve Laptops for Laptop-Required Courses

### **Purpose and description of the project**

Provide a purpose statement and a description of the activities and outcomes of the project

*I would like to propose that we purchase ten laptop computers that can be checked out of Lamson Library by students for three hours at a time. In order to access them, instructors would need to put the laptops "on reserve" for their course, so that only students enrolled in courses where laptops are required would be able to check them out.*

### **Project Impact**

Describe the impact of the project and how it will be reported including how students will be affected. Describe how the project is innovative and how it advances practice in the University.

*Faculty are being asked at the system level to incorporate OERs into their courses. We are all encouraged to use the LMS, and to consider how technology can advance our pedagogy. Early adopters are now using ePortfolios, in line with current research that suggests they improve student learning outcomes. In many cases, students need access to laptops in classes in order to access texts and tools. In Fall of 2013, 93% of students arrived with laptops, and that number is likely higher now. In addition, some students have tablets and smartphones that can sometimes stand in for a laptop in class. This means that in a class of 30, it is likely that only 1-2 students at most won't have laptops. Of the 125 students I have now taught in laptop-required courses, I have had 2 total who did not have laptops who needed to borrow them, and 2 others who borrowed them occasionally when their machines were broken. If even one student does not have a laptop, faculty cannot fairly expect to rely on laptops in classes. PSU does not want to require laptops for all students yet because of the way that cost is required to factor in as tuition cost, making us appear less competitive in price. We need to take action to allow our faculty to continue to develop technology-based curricula and we need to assure access to hardware for our most economically disadvantaged students. A small number of machines should meet need and allow us to support faculty innovators and student learners.*

### **Shared Learning**

Indicate a commitment to share project results with the University and describe how this will be accomplished. Describe what you will report and how it will be shared.

*I will report back how the laptops have mattered in my curriculum and my classes. We can also collect data to see how much use they are getting, and we can additionally use this program to encourage faculty to try more technology-based classroom activities.*

### **Project Support**

Describe how technical support for the project will be provided. Is this provided by the project itself? By the ITS Helpdesk? By the CETL team? What technical support will be required to make the project successful?

*Maintain machines like all other campus machines. Configuring them to leave the library may require additional attention. In addition, checkout system will require assistance and training for front desk personnel.*

**Budget**

Provide a detailed budget of proposed expenditures including estimated costs for technology and related costs for implementation. Describe how on-going costs and upgrades will be managed after the initial implementation.

*Expected cost for ten machines: \$12,000  
(Could be lower if ChromeBooks or similar are adopted)*

*Replacement of machines needed in @ 4 years, at which time the program can be reevaluated before reinstatement. I expect much to change in the world of BYOD by then.*