

Drake University
Campus Communication

Date: April 20, 2007
TO: Lauren Smith
President, Student Senate
From: Provost Troyer
Subject Technology Fee Expenditures

When the student technology fee was adopted more than seven years ago, it was agreed that the Provost would send a report to the Student Senate each year identifying the major items supported by the fee. The report for 2006-2007 is attached. I asked each unit to provide a summary describing how the technology fee dollars were spent. Their largely unedited responses are reproduced on the following pages.

Please contact me if you have questions.

University Level Units

Drake Telemedia Center

•Campus Stolen/Damaged Devices

Recently Drake experienced a series of incidents where devices were damaged or removed from classrooms. Since the occurrences, DTC has taken multiple and elaborate measures to lessen the risk of theft, especially in buildings without video surveillance. DTC also replaced 11 DVD/VCRs and 4-computer monitors. Since the modifications, Drake has not experienced any thefts.

•General Update in Meredith Hall Classrooms

DTC completed a campus wide sweep through Drake buildings evaluating and upgrading classroom environments that were behind in current technology. Meredith Hall was one of two buildings evaluated this year and it was found that a number of classrooms were good candidates for upgrades. Among the upgrades were the addition of MAC & WINDOW functions from a single computer, external laptop connections, microphones, VHS/DVD decks, and new projection screens. The changes improved the user operations and standardized the classroom controls. The rooms upgraded were Meredith 101, 103, 106, 124B, 125, 202, 204, 206, 228, 229, 236 & 238.

•Classroom Standardization

DTC upgraded Meredith 002 and Olin 155 to current user interface technology standards installing the SP CONTROL Standardized User Control System.

•AV Reserve Checkout needs

Funding for the AV Reserve items was used to maintain and improve the resources checked out and used by faculty and students, either in the classrooms or to produce media for classroom usage. Checkout demand is rising dramatically due to the increased need for multimedia presentations in the classroom and learning environments. DTC replaced 12 Classroom TVs, 10 TV mounts, 3 TV carts, 4 Overhead projectors, 2 wireless mics, 2 DV Decks, 5 presentation remotes, 3 checkout laptops and 3 DV cameras.

•Classroom Service needs

Tech Fee funding for classroom service allows DTC to immediately attack problems in the classroom, replace and reestablish operation in a short time period minimizing disruption to classroom operations. Here is a list of malfunctioning or damaged items that DTC has repaired or replaced.

- 4 LCD Video projectors Replaced
- 29 LCD Video projectors Repaired
- 21 LCD Video projector lamps
- 7 Computer video monitors
- 32 VCR/DVD player/recorders
- 17 Instruction computers in classrooms
- 4 Still cameras
- 58 General electronic devices
- 12 Video cameras
- 5 Computer hard drives

- 2 Plasma monitors
- 18 Universal power supplies
- 112 Misc. devices

Cowles Library – Tech Fee Utilization

During 2006-2007 *Cowles Library* continued to make significant progress on the development of an advanced digital learning resource for the Drake educational community. The income derived from the student Technology Fee is a major component of the funding for the digital resources and services of the library.

The overall goal of the library is to provide scholarly information resources and services at any place and at any time learning is taking place within the Drake context. Specifically, tech fee dollars are directed towards three key areas:

1. Acquisition of Digital Resources that directly support Curriculum needs (“Electronica”)
2. Provision of software/systems that facilitate access to and utilization of information resources
3. Technical infrastructure and workstations

Decisions about what is acquired and deployed are made by the library faculty and staff – based on input from several sources: a) faculty recommendations and requests; b) student suggestions; c) surveys of faculty and student satisfaction with library resources and services.

1. Electronica

Sciences/Pharmacy - Ongoing Core Subscriptions

American Chemical Society Web
 Biological Abstracts
 Institute of Physics (IOP) Online (includes archives)
 International Pharmaceutical Abstracts
 JAMA (Journal of the American Medical Association) -- Site License
 JSTOR – Biological Sciences Collection
 Natural Standard (natural & alternative medicines)
 Science Direct Collections Content
 Scientific American Online Archive
 Scopus

Sciences/Pharmacy – New Subscriptions

Nature Online (site license)
 OVID increase in simultaneous users from 3 to 6 for Core Biomedical Collections I & II

Diversity – Ongoing Core Subscriptions

Ethnic NewsWatch
 GenderWatch
 LGBT (Lesbian, Gay, Bisexual, Transgender) full-text

Diversity – New Subscriptions

Oxford African American Studies Center Online
Gender Studies (will start 7/1/07)

Distance Learning/Education – Ongoing Core Subscriptions

eBrary

Distance Learning/Education – New Subscriptions

Mental Measurements Yearbook

Interdisciplinary – Ongoing Core Subscriptions

JSTOR - Arts & Sciences Collections I, II, III, IV
JSTOR – Arts & Science Complement Collection
Lexis-Nexis Academic Universe Online
Sociological Abstracts

Interdisciplinary – New Subscriptions

CQ Researcher Suite (Historical Documents, Public Affairs, Voting & Elections,
Congress, Supreme Court)
New York Times Digital Historical Newspaper (1851-three years ago)

Humanities – Ongoing Core Subscriptions

Grove Dictionary of Art

Humanities – New Subscriptions

ArtSTOR
ATLA Religion database (will start 7/1/07)
Literary Reference Center
Philosopher's Index (will start 7/1/07)

2. Software/systems

- New ILS System Hardware – purchased and deployed a new SunFire V240 server running Solaris 10 for the Libraries' Integrated Library System (ILS). ILS software was also updated to Sirsi-Dynix Unicorn GL3.1.

3. Technical infrastructure and workstations

- InfoCommons Machines - -- eight more machines were upgraded/replaced in the (adding to the 12 machines replaced in 2005-2006).
- Videodidact Electronic Classroom Management System – installed a hardware based system that allows easy routing of the instructor's video signal, a "visiting" laptop's video signal, and full motion video to the classroom projector and all student machines.
- E-Reserves Scanner – a new multi-page scanner was purchased and deployed to support Electronic Course Reserves.
- New ARIEL machine -- this workstation/server is an essential component of the Library's InterLibrary Loan services.

- Software upgrades on all InfoCommons and electronic classroom machines.
- Internet printing ("wireless")

Office of Information Technology

Multi-Media Multi-Media Development Center	State-of-the-art hardware and software for student use in the Development Center. The Center is available daily in Carnegie Hall.
Media	Software for student/faculty/staff academic and personal use. Through the Software Assurance Agreement, Drake students have access to the most current software versions to update their personal computers. The media is available at the Helpdesk Center, lower level, Carnegie Hall. Examples of the CD's are Office Pro 2003; Office Mac Pro 2004; FrontPage 2003. The new version, Office Pro 2007, will be released soon.
Maintenance Scheduler."	Classroom and event scheduling system called "Room/Event Scheduler."
Licenses:	Software licenses for educational purposes for both student and faculty classroom and home use. (Itemized below:)
Apple Computer	400 licenses for MAC operating system. Invaluable in high-end graphic courses such as Journalism, Arts & Sciences, Psychology.
Blackboard	Web-based course management tool that helps organize course materials online, help students prepare more effectively for class, and optimize time spent in and out of the classroom. It provides tools and facilities for online course management, content management and sharing, assessment management, and online collaboration and communication. Drake currently offers 456 courses in Blackboard.
Mathematica computing.	Fully integrated environment for teaching and for scientific Highly technical software; unlimited licenses for students and faculty.
Microsoft agreement.	The license agreement is tied to the underlying software The annual enrollment fee for the license allows Drake to purchase the software (see media above). This is one of the premier benefits

for students in terms of savings. Over-the-counter purchase of the same product is approximately \$350 compared to free media for Drake students.

SAS Teaching, analytical, and research software; 50 licenses for PC's.

SPSS Statistical software; unlimited licenses for students and faculty.

Colleges and Schools

College of Arts and Sciences

An allocation was requested by the College of Arts and Sciences and granted by the A&S Tech Committee for replacement of aging printers in the Biology, Music, and Theatre CAD student computer labs, as well as the Biodiversity Center. The College also requested and was granted an allocation to replace four obsolete classroom computers.

An allocation was requested by the College of Arts and Sciences and granted by the A&S Technology Committee for the purchase of 10 Dell Computers to replace obsolete computers in the Mathematics Computer Lab.

An allocation was requested by the Drake University Language Acquisition Program and granted by the A&S Technology Committee for a 10/100/1000 ethernet switch to update the network infrastructure serving their student computer lab.

An allocation was requested by the Theatre Department and granted by the A&S Technology Committee for 4 student workstations to replace aging computers in the Theatre CADD Student Computer Lab.

An allocation was requested by the Department of Math and Computer Science for 10 student workstations and 2 servers to replace aging and obsolete machines in the Sheppard Computer Science Student Computer Lab. This request was approved by the A&S Technology Committee.

An allocation was requested by the Chemistry Department and granted by the A&S Technology Committee for a laptop and calculation software to be used in student classes.

An allocation was requested by the Department of Culture and Society and granted by the A&S Technology Committee for 4 digital video cameras and 3 Firewire hard drives for student checkout.

An allocation was requested by the Music Department and granted by the A&S Technology Committee for purchase of music notation software for use in the Music Student Computer Lab and MIDI Studio.

An allocation was requested by the Art Department and granted by the A&S Technology Committee for 17 student workstations and 19 monitors to replace aging equipment in the Carnegie Graphic Design Student Computer Lab.

An allocation was requested by the English Department and granted by the A&S Technology Committee for the purchase of a 500GB Firewire hard drive and additional network ports for the Video Editing Student Computer Lab.

College of Business and Public Administration

The majority of student tech fee funds used by the College of Business and Public Administration this year have been applied toward hardware and infrastructure upgrades that will support the increasing use of technology by students. Of particular note, the vacating of the old server room will allow future classroom additions to take place in the lower level of Aliber Hall. This coincided with a network infrastructure upgrade that will provide support for future growth in the use of wireless access and computer based instruction.

A list of the projects follows:

Classroom Standardization Aliber 9 and 10

This finalizes our classroom standardization project. All classrooms in Aliber Hall will have the same console interface. This dramatically reduces training and confusion for both faculty and student presenters.

Video/Audio capture Aliber 101 and 112

This project adds the ability to capture and stream audio and video from the classroom for future playback. This playback could take the form of pod casting, vod casting or use as multimedia clips in future web based courses.

Software Licensing: Research Insight/Compustat license

This is a site license for software used in finance classes for analysis of stock trends.

ACES contract

This is a contract with an outside vendor for 24x7 monitoring of key CBPA servers. This primarily accelerates our response time to server related problems; thereby reducing the impact that downtime has on our students.

File/Print Server replacement and relocation

This project accomplishes three specific goals.

1. Replacement of the aging file/print server with a more dependable hardware system. The file server is used for student work directories and local classroom content.
2. Upgrade the building network infrastructure so that wired and wireless access is less likely to have issues.
3. Relocate the server room from a room that could be better utilized as a classroom, to a room that is also easier to access for maintenance.

Universal projector mounts

Standardize the projector mounts in the building so that when a failure occurs, the building service projector can be swapped quickly during the standard class break.

Web/Citrix Server replacement

Replace out of warranty College web server with new hardware and upgrade Citrix farm servers. The web server serves web pages for both faculty and CBPA related student groups. The Citrix farm needs more processing power for the new Office 2007 and Visual Studio.Net applications.

Classroom console power outlets

This reduces the trip hazard caused by students and other presenters needing power outlets for laptops while at the classroom console. Outlets will conveniently be located on either the left or right sides of the console, depending on physical layout of the room.

School of Journalism and Mass Communication

The majority of the tech fee funds used by the School of Journalism and Mass Communication were to support the integration of new and evolving media into all departments within the School. One of the School's major initiatives this year was the revision of JMC59, Visual Communication, which is required of all journalism students and which has become the students' introduction to media convergence, teaching them how to prepare content for a variety of media, both new and traditional. This required software and hardware upgrades and additions in Meredith 124B, 124C, and 125. In addition, all SJMC technology labs, which are used for introductory as well as upper level courses, had software and hardware upgrades

A list of items purchased, the labs in which they were installed, and the courses in which they were used is found below. (Note: Not all of these items have yet been installed.)

Software Upgrade: Adobe Creative Suite 2

Labs: Meredith 124C and 125

Courses Affected: Journalism 59, Visual Communications, plus courses in the Advertising, Magazine, News-Internet, and Public Relations majors, including JMC 70, 92, 102, 105, 119, 122, 131, 143, 145, 146, and 171.

Software Upgrade: Adobe Dreamweaver Web Bundle, QuickTime Pro

Labs: Meredith 124B, 124C and 125

Courses Affected: Journalism 59, Visual Communications, plus courses in the Advertising, Magazine, News-Internet, and Public Relations majors, including JMC 70, 92, 102, 105, 119, 122, 131, 143, 145, 146, and 171.

Software Upgrade: Mac OSX Server

Labs: Meredith 2, 6, 124B, 124C and 125

Courses Affected: All journalism lab courses.

Hardware Upgrade: Apple 17-inch iMacs

Lab: Meredith 125

Courses Affected: Journalism 59, Visual Communications, plus courses in the Advertising, Magazine, News-Internet, and Public Relations majors, including JMC 70, 92, 102, 105, 119, 122, 131, 143, 145, 146, and 171.

Hardware Upgrade: Video Presenter Document Camera

Lab: Meredith 124B

Courses Affected: Journalism 59, Visual Communications, plus courses in the Advertising, Magazine, News-Internet, and Public Relations majors, including JMC 70, 92, 102, 105, 119, 122, 131, 143, 145, 146, and 171.

Hardware Update: Final Cut Pro Editing Workstation

Lab: Meredith 2

Courses Affected: Courses in the Broadcast News and Radio-Television majors, including Journalism 100, 114, 173, 193, and 194.

Hardware Update: Wireless Field Recording Microphone

Availability: Check-out

Courses Affected: Courses in the Broadcast News and Radio-Television majors, including Journalism 100, 114, 173, 193, and 194.

Hardware Update: CD/MP3 Player, Digital Playback Workstation, DV Converter, and Off-Air Monitor

Lab: Meredith 6

Courses Affected: Courses in the Advertising, Broadcast News and Radio-Television majors, including Journalism 57, 100, 114, 173, 193, and 194.

Digital Still Cameras

Availability: Check-out

Courses Affected: Journalism 59, Visual Communications, plus courses in the Advertising, Magazine, News-Internet, and Public Relations majors, including JMC 70, 92, 102, and 105.

DVCam Video Camera

Availability: Check-out

Courses Affected: Courses in the Broadcast News and Radio-Television majors, including Journalism 100, 114, 173, 193, and 194.

Newtek Tricaster

Availability: Check-out

Courses Affected: Courses in the Advertising, Broadcast News and Radio-Television majors, including Journalism 57, 100, 114, 173, 193, and 194.

Law School

During 2006-07 the Law School allocation of technology fees was used for many enhancements and improvements, including:

- Classroom technology upgrades (including the courtroom)
- Podcasting equipment for the classrooms
- CALI (Center for Computer-Assisted Legal Instruction) programs
- Examsoft licensing to enable use of computers for exams
- Various Software and Licenses (Adobe, AND, Symantec, JAWS, etc.)
- Classroom technology maintenance and repairs
- New computers in classrooms, labs and elsewhere
- Replacement printers in labs and elsewhere

Elaboration:

Classroom technology upgrades: A fully-equipped console was added in the Cartwright courtroom to provide projection equipment in that classroom. New equipment such as DVD players were added in several classrooms as well.

Podcasting equipment for the classrooms: Podcasting units were acquired to enable simultaneous recording from all of the Cartwright classrooms. Students are making great use of the podcasts.

CALI (Center for Computer-Assisted Legal Instruction) programs: Students are provided with access to hundreds of interactive programs to enhance learning. <http://www.cali.org>

Examsoft licensing to enable use of computers for exams: This secure software enables students to use their laptops to take exams. <http://www.examsoft.com>

Various Software and Licenses: Licenses must be maintained for all of the software used in the law school, including Adobe, AND, Symantec, JAWS, Pcounter, etc.

Classroom technology maintenance and repairs: Funds were used to bring classroom technology back up to performance levels following failures.

New computers in classrooms, labs and elsewhere: Classrooms, labs, student offices, and other work areas were equipped with new computers.

Replacement printers in labs and elsewhere: New printers replaced aged ones in labs and in other locations where students and law school personnel print.

School of Education

Faculty and Staff from the School of Education collaborated on the best uses of the money returned from student technology fees. The needs of graduate and undergraduate students, on and off campus are reflected in the final decisions.

Major software purchases have been made for the SOE computer lab including Oregon Trail and Learning Wall for use in social science methods classes. Software was added to create video demonstrations which will be used for classes and open lab assignments. A complete configuration was added for the creation of pod-casts including a studio quality pod-cast microphone, headsets for lab workstations and a classroom set of iPods that will be available for instructors to use in classes.

As a part of our regular computer lab maintenance, we turned over 8 machines in the lab and replaced 6 computers in the library along with our first color printer. We updated the server needed to manage our lab and replaced 5 old monitors with flat screen panels. Printer maintenance parts were replaced to keep student printers running smoothly and we replaced an aging television set used for viewing field experiences.

The SOE maintains a large physical library of sample textbooks, curriculum and professional development materials. This year we automated the library by purchasing database software which makes electronic searching available via the web. In addition, we purchased electronic access to Teachingbooks and Reading A-Z which are major elements of K-12 reading program materials. Teachingbooks are now licensed to ALL Drake students and Reading A-Z is available for all SOE courses.

A laptop and digital camera was purchased for off-campus teachers. In addition we purchased VIA-Voice to demonstrate voice capture in qualitative research. Five new video cameras, cases and tripods were purchased for the creation of online student teaching portfolios.

We added a complete DVD duplication setup that will be used to produce instructional DVD's for distribution to students. The DVD's will be available to traditional and online students. An 11-year-old speakerphone was replaced and is used for conducting class discussion, conferences, committee meetings and interviews.

Pharmacy and Health Sciences Projects

Classroom/Laboratory creation/renovation/maintenance

1. Upgrade of electronic classroom – Cline 206
New Dell computer, new MAC computer, new ELMO
2. Addition of DVD/VCR in Fitch 102

Purchase of software and hardware to support computer laboratories

1. Replacement of 17 PC computer workstations, 2 MAC computer workstations, and 4 HP Laserjet 4350 printers with duplexors in OSCO computer laboratory
2. Laboratory Win2K3 Server Licensing

Acquisition and licensing of electronic library information resources

1. Software maintained for support of curriculum in Osco Computer Laboratory
Lexicomp; Facts and Comparisons, QS1

Maintenance of hardware and software that support curricular programs

1. 2 DVCams Sony DCR-VX2100, tripods and cases; 1 VHS-C Camcorder and adaptor, tripod and case; 1 MiniDV Sony HD Palm corder, tripod and case; 1 Video Projector and case; 1 Multiformat Video Deck; 1 LCD Video Monitor, 2 wireless Mic systems and 1 MP3 recorder for support of videotaping of laboratory skills and professional presentations required in the curriculum
2. 45 licenses of STATA/SE 9 Educational Lab software for Windows and 10 STATA/SE 9 Educational Lab software for Macs for use in social and administrative science curriculum and availability in computer laboratory
3. Replacement of 2 PC computer workstations required in directing, administering and evaluating web- based senior capstone – advanced practice rotations
4. Color LaserJet Printer to support production of color presentations and posters

5. Apple laptop to accompany LCD project for instruction in classrooms without technology

Student help in support of academic technology

1. Student employment throughout fiscal year in support of computer laboratories and instructional technology