Engineering Student Technology Committee

Meeting minutes for September 1, 2004 - Engineering Conference Room - 8:00am

Present: Prof. David Alciatore (ME), David Bryant (ME), Bryce Eldridge (ECE), Ryan Fleming, chair (CE), Klaus Hartinger (ECE), Doug Hopper (ME), Derek Johnson (ChemE), Amanda Kaiser (ME), Prof. Kevin Lear (ECE), Elizabeth Lipp (intra), David Miller (ChemE), Mark Ritschard (ENS), Russ Schumacher (Atmos), Heidi Shray (ECE), Dr. Tom Siller (Academic Affairs), Luke Van Roekel (Atmos)

Absent: Prof. Jeff Collett (Atmos), ChemE undergraduate (unfilled), ChemE faculty (unfilled), CE undergraduate (unfilled), CE graduate (unfilled), CE faculty (unfilled), Intra-departmental undergraduate (unfilled)

Guests: Dr. Steve Abt (Dean) and Miranda Grote (intra)

- Welcome and introductions

Fleming welcomed the committee to the new school year and introductions were made. As this committee reports to the Dean of Engineering, Dr. Abt, interim Dean, charged the committee and offered to assist in any way needed. His office is always open if the committee would like to discuss any matters with him.

- Review of Committee Responsibilities

Ritschard reviewed the responsibilities of the committee, which are governed by the Charges for Technology manual (attached). The Charges for Technology manual is maintained by the University Charges for Technology (CFT) committee, of which three members come from this committee. Ritschard and Fleming will be two of the representatives and a volunteer is needed for the third.

- Filling all committee positions

Fleming noted that several committee positions remain unfilled and encouraged members to help fill them. A handout (attached) was distributed, showing which positions are vacant.

- Review of ESTC web pages

Ritschard handed out two views (attached) of the ESTC web pages (http://www.engr.colostate.edu/ESTC). Currently, he maintains the web pages for the committee and welcomes suggestions for improvements or additions. In particular, it was noted that the web pages provide an historical record of the last five years of committee work.

- University Technology Fee

Ritschard emphasized that this committee manages the "charge for technology" for the College of Engineering and that this fund is entirely separate from the "university technology fee" managed by ASCSU.

- Budget Reviews (this year and last year)

The budget for each academic year is set by the prior year's committee. Ritschard distributed this year's budget (attached) and explained that the goal is to carry forward $0 to the next year. As a result, ENS spent funds in advance to allow others to carry funds forward, resulting in approximately a $5K carry-forward to this fiscal year. Of the $15K carry-forward in Strategic Initiatives, $2K is for Biomedical Engineering, $5K is for the ERC lab, and $8K is for Environmental Engineering.

Ritschard also distributed a review (attached) of last year's (FY04) budget and expenses. The details (attached) are provided to show the committee exactly how funds are spent each year.

- Review of summer changes

Ritschard reported on the following items that were given to ENS to work on over the summer:

- Lab hardware changes

Ritschard distributed a spreadsheet (attached) showing what hardware was installed this summer as part of the committee's four-year replacement cycle. He explained that all equipment has been installed except for the computers. Delays in purchasing mean that the computers will not be in for about another 4 weeks. The spreadsheet also shows the exact cost of equipment purchased and whether the cost was over or under budget. The small amount over budget will be made up when the computers are purchased.

- Scholarships

Ritschard distributed a copy (attached) of the scholarship award letter written by Shawn Klawitter, Tim Hinerman, and Ritschard as charged by the committee last April. Also distributed was a list (attached) of this year's undergraduate award recipients. Graduate awards have yet to be made due to the complexity of the selection process.

- LMDS clock

Ritschard reported that one new clock was installed in the Lockheed Martin Design Studio (LMDS), but realized that last year's committee actually requested two. This committee advised Ritschard to purchase a second "large" clock to be placed at the other end of the LMDS.

- ERC classroom

Ritschard distributed two handouts (attached) showing the layout of the new computer classroom funded by this committee last spring. The first layout was the original one done by ENS, the second one was done by the design firm SmartDesks and actually proves to be a better fit for the room. The wall between the previous two rooms is down, new lights are in, and new electrical and network lines are being installed. The room still needs to be painted. Ritschard asked that the committee consider some additional funding to the room to address the unanticipated expenses associated with the new classroom, such as extensive network wiring and the need for flat-panel displays.

- Internet Cafe vendor

The vendor Zuba's chose not to return to the Internet Cafe this fall. Unless the committee feels strongly about finding another vendor, no replacement will be found at this time.

- Microwave table

The table for the Microwave provided by the Engineering College Council is on order.

- Card Readers

Ritschard reported that the card readers are not working well and ENS is aware of the failures. Unfortunately, replacements were ordered in May and the company informed ENS in August that the readers can no longer be made. ENS is in the process of exploring alternatives.

- Review of items for future discussion (in no particular order)

* ERC classroom
* Print Credits Review
* Lab entry statistics
* Cafe sound estimate
* LMDS improvement ideas
* Possible scholarship credit change (from 12 to 14)
* Security in the labs
* Microsoft Office on the Virtual Classroom
* Scholarship criteria

Submitted by
Mark Ritschard

CFT Manual 4-04 (CURRENT).doc

ESTCmem.pdf

ESTCweb.pdf

AY05budget.pdf

AY04expensesCat.pdf

CFT 259130 FY04 for ESTC.xls

ESTC new equip SU04.xls

ESTC Scholarship Award Letter.doc

ESTC Schol Recipients 8-04.doc

Draft ERC classroom.pdf

SmartDesks ERC lab design 8-04.jpg

Charges for Technology Manual

Colorado State University

April 2004

Contents

Rationale for Charges for Technology

The students at Colorado State University, in conjunction with their respective faculty and college administrators, recognize and acknowledge the following:

- Technological skills provide fundamental advantages in the job market;
- The State of Colorado and Colorado State University have many pressing fiscal needs that make it difficult to maintain a state-of-the-art technological environment for instructional programs; and
- For many students, the cost of purchasing and maintaining state-of-the-art technology for personal use is prohibitive. This is due largely to the rapid changes in technology being experienced in the marketplace.

Therefore, to provide general access to state-of-the-art instructional technology, to reduce the costs of technology for each student by pooling the resources of all students, to provide a competitive advantage to students who attend Colorado State University, and to direct sufficient funding to these specific purposes, the students, faculty, and college administrators at Colorado State University endorse and support the collection of charges for technology. The charge is not intended to be a "use charge" and therefore is assessed to all students regardless of whether they actually use the equipment or whether they are enrolled in a course in the specific college for that semester.

The purpose of this manual is to standardize the policies governing the approval and administration of the different charges in use by the individual colleges at Colorado State University. The current University policy, approved by the State Board of Agriculture, provides enough latitude for each college to meet the needs of its respective constituencies.

At present, all the colleges at Colorado State University as well as the Intra-University Option have adopted and have been granted permission by the State Board of Agriculture to institute charges for technology. Each has a separate charge schedule consistent with the different needs of the constituencies at Colorado State University (see Appendix A).

The State Board of Agriculture approves the Charges for Technology for each of the colleges every year.

Strategic Planning within Each College and throughout the University

Each of the colleges should include long-range plans addressing future technological needs as part of its existing strategic planning. Coordination among colleges relating to future technological needs will undoubtedly result in overall savings for the University. Items not considered to be state-of-the-art in one college may provide a sufficient degree of functionality in another college or unit. The University will endeavor to make available to all of its units lists of equipment considered to be obsolete or surplus as well as needs of the different units.

Establishment of a College Technology Committee

Each college and the Intra-University Option at Colorado State University shall establish a College Technology Committee to oversee the administration of the charges for technology. The majority of committee members shall consist of students majoring within the college or the Intra-University Option and, at the discretion of the Dean, appropriate University personnel (e.g., faculty, computer lab coordinators). The Dean of each college shall be responsible for ensuring that adequate representation is present on this committee, according to the procedures outlined in the State Board of Agriculture approved Charges for Technology proposal for each college.

Responsibilities of the College Technology Committee

The College Technology Committee will ensure that extensive planning and communication with students will occur prior to any major commitment of funds. Input from student groups will be requested and considered prior to committee decisions. The College Technology Committee shall be responsible for ensuring that the funds returned to each college are spent according to established procedures. The Dean of each college shall be responsible for ensuring that these funds are administered according to CCHE guidelines with respect to "academic" charges as well as other applicable regulations or laws.

Continuation of Charges for Technology

The continuation of charges for technology within a college, as well as the amount of the annual charge, shall be voted upon by the College Technology Committee within each college at least every two years, beginning Spring Semester of 1996. This vote of the committee as well as the request for the continuance of charges for technology must be noted in the college annual Charges for Technology report.

Each year the College Technology Committee shall be authorized to request an increase or decrease of the charge by an amount not to exceed 5% of the current annual charge without completing the full approval process described in the next paragraph.

If an increase or decrease larger than 5% of the current annual charge is contemplated, the College Technology Committee shall hold open hearings, during the academic year, with all parties (undergraduate students, graduate students, and faculty). Following the hearings, a vote of all College Technology Committee members shall be taken. Passage of a charge change greater than 5% shall require approval by a two-thirds majority of the committee members.

All recommendations for continuation or changes shall be forwarded to the Dean for approval. The Dean's decision and reasons for the decision shall be communicated to the College Technology Committee. All charge recommendations shall then be forwarded to the University Information Technology Executive Committee (ITEC) and then to the Provost, who shall give approval before the recommendations are forwarded to the State Board of Agriculture. The State Board of Agriculture shall have ultimate authority for approving the continuation or changes. At the June Board meeting each year, continuation and proposed changes to the charges for technology are approved as part of the budget process for the coming fiscal year.

Requests for changes greater than 5% shall include the following information:

- Five-year history on actual and projected (for the current fiscal year) revenue and expenditures, and projected revenue and expenditures under the proposal
- Space and other facilities related requirements, if any, related to the change
- A description of the process used to obtain student support for the change
- Specific rationale and justification for the requested increase

Distribution of Funds

Each College Technology Committee shall be responsible for recommending a procedure for distribution of the funds resulting from the charges for technology. This distribution must be approved by the Dean of each college. The College Technology Committee may opt for centralizing the funds, or it may opt to return a percentage to each department to reflect the different needs of the college's various disciplines. Expenditures shall be reviewed beforehand by the Dean. Any disputes between the College Technology Committee and the Dean will be referred to the Provost for resolution.

Refunds

There may be unusual situations that could justify a refund of the technology charge, and students may request a refund from the College Technology Committee. Such a request shall be made in writing and addressed to the Chairperson of the College Technology Committee. The decision to grant a refund shall be determined by a majority vote of the College Technology Committee. The student may appeal the committee's decision by notifying the committee and arranging a date to meet with committee members. Arguments from both sides will be heard and a vote taken. Decisions made by the committee at that meeting shall be final. Refunds will not be granted for the following reasons:

1) no predicted use of the equipment
2) non-enrollment in any specific college courses that semester
3) change of college later than one week after census date

A refund may be permitted on the grounds of change of college before or within one week following the official university census date. Students requesting refunds must present documents proving a change has been processed by the Registrar's Office. A refund may also be allowed because of withdrawal from the University as a result of serious illness, disabling accident, military call-up, or activation of Reserve or National Guard units, as stated in University policy, and is subject to confirmation by the Office of Enrollment Services.

Proposal for Expenditures

To improve educational experiences, proposals for expenditures of the funds resulting from the charges for technology shall be solicited by the College Technology Committee from students and faculty, preferably working together. Members of the committee are primarily responsible for identifying departmental needs; however, the departments may make their own requests. Moreover, all students having suggestions about laboratory equipment, computers, and other general-purpose requirements are encouraged to bring them to the respective committee members, department heads/chairs and/or the Dean's Office. Laboratory supervisors, graduate teaching assistants, and faculty members are also encouraged to make suggestions as they often know what improvements are needed and what is commercially available to upgrade and enhance the different laboratories.

As a University-wide teaching facility, the University Libraries may submit proposals for expenditures to established College Technology Committees, either for assistance in special technology for students in particular colleges, or for across-the-board technology enhancements.

The Assistive Technology Resource Center should be consulted when designing computer laboratories with improved accessibility for all students. To meet the needs of individual students with specific disabilities, the Assistive Technology Resource Center may purchase or provide specialized equipment or other appropriate accommodation(s) as warranted on behalf of a particular student. Total expenditures for such accommodations during each year will be allocated to each college's E&G budget, in proportion to the Charges for Technology collected by each college the previous year, to reimburse these costs incurred by the Assistive Technology Resource Center.

A college may carry forward Charges for Technology funds for several years to provide for major purchases. Requests for carry forward must be fully documented and justified and the major purchases in-

volved must be included in the strategic plan for the college. A multi-year purchase must not be in conflict with pertinent laws of the State of Colorado or other applicable regulations. Any requests for carry forward funds for multi-year purchases must be included in the annual report and must be approved by the Provost.

Allowable Uses of Funds

The following are allowable uses of the funds resulting from the charges for technology:

1. Student hourly compensation

Funds can only be used specifically to compensate students for monitoring or supervising computer laboratories or other laboratories where a substantial amount of the equipment has been purchased with the funds resulting from the charges for technology, or to compensate students for offering technology training and/or technology development specifically for students. Such technology training or development shall not be in support of academic courses or other functions normally funded by academic units. Students otherwise occupied in normal departmental functions, such as graders or tutors, shall not be paid from these funds.

2. Examples of allowable purchases of computer hardware and software

Computers
Plotters
CD-ROM drives
Operating systems
Spreadsheets
Utility packages
Simulators
Software licenses
Tape backup devices
Multimedia products
File servers
Modems
Printers
Hard disk drives
Network cabling and devices
Word processors
Graphics packages
Compilers
Productivity tools
Software upgrades
Diagnostic software
Security systems
Ergonomic furniture
compatible with learning stations

3. Examples of allowable purchases of other instructional equipment

Scientific laboratory instruments
Diagnostic hardware
Art studio technologies
Cameras
Video teleconferencing equipment
General testing equipment
Kilns
Electrical or electronic music technology
Videotape machines

4. Examples of allowed purchases of laboratory supplies

Printer paper for student use
Mouse pads
Printer cartridges
Video and audio tapes

This category is not intended to be used for the purchase of otherwise typical laboratory supplies for equipment not purchased with funds resulting from the charges for technology.

5. Maintenance

Charges for maintenance required for the continued use of the items purchased with funds resulting from the charges for technology are allowed and encouraged.

In addition, credit card costs incurred by the University in permitting students to pay the charges for technology are allowable "cost of doing business charges."

The constituency of a college may wish to exclude or include any of the aforementioned items. Such an exclusion or inclusion must be recommended by the College Technology Committee of the respective college and the action filed with the Dean's Office and the Provost's Office.

Non-Allowable Uses of Funds

The following are non-allowable uses of funds resulting from the charges for technology:

Non-student personnel	Graduate student assistantships
Personnel recruiting expenses	General furniture
General office supplies	Vehicle rental
Facilities remodeling	Photocopying
Equipment not accessible to students	Travel

Any photocopying such as copying for computer manuals is not an allowable use of funds.

The term “accessible to students” is meant to imply equipment used by students in order to fulfill academic requirements. Such equipment may be available in an open lab or in a specialized laboratory accessible only while a faculty member or a teaching assistant is present. Often specialized equipment can only be used in a meaningful manner when a direct supervisor is present. Ordinarily, purchase of administrative equipment is not considered an appropriate use of the funds.

The appropriateness of a specific item may be questioned by a Dean and advice obtained from the internal audit office of the University. Inappropriate expenditures proposed by the College Technology Committee can be vetoed by the college Dean. A process for appeals and clarification shall be in place and rests with the Provost, who shall have final say. If Deans allow inappropriate expenditures, they are subject to adverse audit findings which will be addressed during regular performance reviews.

Basis of the Charges for Technology for Undergraduate Students

All undergraduate students enrolled for nine or more credits will be assessed the charges for technology by each of the colleges. The charges will be prorated for students taking less than nine credits. No distinction is made between resident and non-resident students.

All charges collected from students in a given college will be transferred directly to that college as a separately budgeted item in the Resident Instruction budget of the college.

Basis of the Charges for Technology for Graduate Students

Graduate students enrolled for six or more credits in colleges that require charges for technology of graduate students will be assessed the charges for technology. The charge will be prorated for students taking less than six credits. No distinction is made between resident and non-resident students. Graduate students paying the continuous enrollment fee do not pay the charges for technology.

Need-Based Scholarships

Ten percent of the Charges for Technology funds collected each Fall and Spring shall be designated for need-based scholarships in each college. The College CFT committees shall determine the amount of the scholarships, the eligibility requirements, and the application process. The process shall consider gross financial need and enrollment status. College CFT committees may also establish other criteria (e.g., grade point average, year in school) as they see fit. Scholarships shall not exceed the higher of a) 50% of full tuition for the current year or b) twice the total CFT charges assessed a single student for four years (eight semesters plus any intervening summer sessions). Students on less than half-time status shall not be eligible for CFT need-based scholarships.

Each year, the Office of Student Financial Services shall provide each college with a list of eligible students, based on their gross financial need and other applicable criteria established by the college. The summary of need-based scholarships awarded by each college shall be included in the annual Charges for Technology report provided to the Board of Governors of the Colorado State University System.

Reports and Requests to the State Board of Agriculture

Each year each college shall produce an annual Charges for Technology report. Copies shall be made available upon request to any student or faculty member, and a copy of the report shall be posted at all central departmental bulletin boards or on the Web.

Each college shall submit to the Director of Academic Computing and Networking Services the annual Charges for Technology report to be collated into a comprehensive report for the University and submitted to the Information Technology Executive Committee for review. The report is then presented to the Provost, the President's Cabinet and subsequently forwarded to the State Board of Agriculture.

Colleges requesting changes greater than 5% shall submit this request to the Information Technology Executive Committee for review. The report is then presented to the Provost, the President's Cabinet and subsequently forwarded to the State Board of Agriculture.

The State Board of Agriculture receives the annual Charges for Technology report at its May meeting. At the June meeting, it receives requests for changes in the charges for technology. Also, all continuing charges are approved each year at the June meeting. Consequently, annual reports from the colleges are due to the Information Technology Executive Committee by March 1, and requests for changes in the charges for technology by April 1.

Format for the Annual Charges for Technology Report

The information requested for the report includes:

- Estimated revenue for the current fiscal year
- Budgeted expense for the current fiscal year
- A detailed explanation of the use of the funds
- Administrative process
- A detailed description of the impact that Charges for Technology are having on educational programs
- Need-based scholarships provided to students (must be 10%)
- Request for carry forward, if any
- Request for continuance of the current charges, if applicable

Sample of an annual Charges for Technology report (from the College of Natural Sciences)

Impact of Charges Collected: Charges collected during 1993-94 totaled approximately $480,000. Over $40,000 was used for need-based scholarships. The college continued its policy of funding purchases in two general areas: computers, including software and peripherals, and laboratory equipment. Selected examples follow. The Department of Biochemistry continued to upgrade its student laboratories to industry standards with the purchase of 10 spectrophotometers. The department also continued investments in tutorial software for their Undergraduate Resource Center. The Department of Biology has replaced worn, damaged and outdated microscopes in introductory teaching laboratories with the latest technology. This includes binocular compound microscopes from Leica, as well as stereo zoom dissecting scopes. The Department of Computer Science continued with its multi-year plan for upgrading its laboratories. CS purchased 17 x-terminals (for use on UNIX applications) and improved the networking in its lab with the purchase of ethernet items for a large server. The Department of Chemistry chose to invest its funds resulting from the Charges for Technology in improving its capability to present and support modern lecture demonstrations. Videodisc players, visual presenters, Macintosh computers with LCD projectors, and an advanced optical reader were part of the lecture/demonstration package approved for this effort. The department also purchased miscellaneous equipment to upgrade undergraduate quantitative analysis and physical chemistry labs. The Department of Mathematics is now teaching introductory calculus courses (M160 and 161) on Macintosh computers. Funds resulting from the Charges for Technology were used to upgrade the site license for Maple, the teaching software used by the department, and to purchase other software associated with teaching. The department also purchased some additional computer hardware. The Department of Physics has been upgrading each of its undergraduate laboratory experiences over the past four years. This year's targets included astronomy, general physics, and modern physics. Beginning astronomy courses have allowed only very limited viewing time in the past, because the hundreds of students taking the course each semester had only one telescope (at the observatory) to use. In perhaps the most innovative use of funds resulting from the Charges for Technology, the department proposed to purchase six (to be increased to 12 with future purchases) 8-inch telescopes. The department will construct mounts and secure storage for the telescopes on the roof of the engineering building. Telescopes will be temporarily mounted for evening use, and hundreds of viewing hours will be added to the experience of the participating students. The Department of psychology continued its aggressive addition of laboratory experiences to undergraduate education. Equipment purchases went to sensation and perception labs (sensory workstations which demonstrate visual, auditory, and speech phenomenon); experimental labs (data recording and computer analysis equipment);

and physiological labs (brain wave recording and analysis equipment). Our psychology students now experience what is perhaps the most modern series of teaching labs in the country. The Department of Statistics used funds resulting from the Charges for Technology to help equip their new laboratory which will be operated jointly with the College of Liberal Arts. This is the fourth College of Natural Sciences student computing laboratory. Funds resulting from the Charges for Technology purchased the server system which links the 44 networked workstations in the laboratory.

Administration of Funds: The funds resulting from the Charges for Technology distributed to each department are determined by a formula based on the number of majors and the laboratory contact hours generated by each department. The College has a Policy Manual for use by departments in developing proposals. Departments solicit input and ideas from students and faculty members and work with student clubs to generate proposals. Departmental proposals are then submitted to the College Student Council for approval. Council members consider each proposal and question departmental representatives as to proposed usage, availability to students, possible alternatives, etc. The Council has final word on approval of departmental proposals. The Assistant to the Dean monitors expenditures for consistency with university and college guidelines.

Appendix A

Charges for Technology Each Semester (2004-2005)

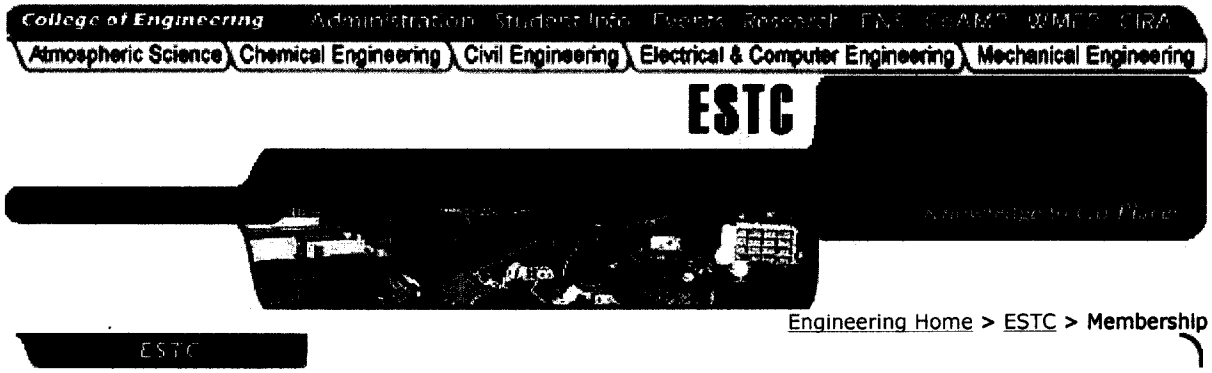
College	Undergrad. Charge	Grad. Charge	Summer Charge
Agricultural Sciences	$75	$75	No
Applied Human Sciences	$69	$69	Yes
Business	$100	$100	No
Engineering	$155	$155	No
Intra-University Option	$36	N/A	No
Liberal Arts	$55	$55	No
Natural Resources	$100	$100	No
Natural Sciences	$100	$0	No
Veterinary Medicine	$100	$0	No

Colleges may assess charges for technology to summer students.

Undergraduate students enrolled for nine or more credits will be assessed the full charge for technology. The charge will be prorated for students taking less than nine credits.

Graduate students enrolled for six or more credits in colleges that require charges for technology of graduate students will be assessed the full charge. The charge will be prorated for students taking less than six credits. Graduate students paying the continuous enrollment fee do not pay the charge for technology.

No distinction is made between resident and non-resident students.



ENGINEERING STUDENT TECHNOLOGY COMMITTEE (ESTC) MEMBERSHIP

Per the college code, the ESTC has 23 members (16 students, 6 faculty, & 1 staff):

- **four representatives from each engineering department (three from Atmospheric Science), all of which are appointed by the chair of the department**
  - **two undergraduates *(none from Atmospheric Science)***
  - **one graduate *(two from Atmospheric Science)***
  - **one faculty member**
- **two representatives from intra-departmental majors, appointed by the coordinator for the majors**
- **the Associate Dean for Academic Affairs**
- **the Director of Engineering Network Services**

Each department representative serves a two year term.

ESTC MEMBERSHIP 2004-2005

Name	Position	Department	Term Expires
Tom Siller	Associate Dean	Academic Affairs	*ex officio*
Michelle L'Heureux*	*graduate*	Atmospheric Science	2005
Chris Rozoff*	*graduate*	Atmospheric Science	2004
Steve Rutledge*	*faculty*	Atmospheric Science	2004
unfilled	*undergraduate*	Chemical Engineering	2006
David Miller	*undergraduate*	Chemical Engineering	2005
Derek Johnson	*graduate*	Chemical Engineering	2005
unfilled	*faculty*	Chemical Engineering	2006
Ryan Fleming, ***chair***	*undergraduate*	Civil Engineering	2005
unfilled	*undergraduate*	Civil Engineering	2006
unfilled	*graduate*	Civil Engineering	2006
unfilled	*faculty*	Civil Engineering	2005
Bryce Eldridge	*undergraduate*	Elec. & Comp. Engineering	2005
Heidi Shray	*undergraduate*	Elec. & Comp. Engineering	2006
Klaus Hartinger	*graduate*	Elec. & Comp. Engineering	2006
Kevin Lear	*faculty*	Elec. & Comp. Engineering	2005
Mark Ritschard	Director	Engineering Network Services	*ex officio*

unfilled	*undergraduate*	Intra-departmental	2006
Elizabeth Lipp	*undergraduate*	Intra-departmental	2005
David Bryant	*undergraduate*	Mechanical Engineering	2005
unfilled	*undergraduate*	Mechanical Engineering	2006
Doug Hopper	*graduate*	Mechanical Engineering	2005
David Alciatore	*faculty*	Mechanical Engineering	2006

*The Atmospheric Science members meet separately from the rest of the committee. This year, the three official members are joined by students Brenda Dolan, Todd Ellis, Matt Rogers, and Sarah Tessendorf and by staff Natalie Marquez and Walt Naylor. Together, these individuals determine the distribution of the funds allocated to Atmospheric Science.

ESTC Membership in Previous Years

1999-2000 2000-2001 2001-2002 2002-2003 2003-2004

Contact Webmaster
College of Engineering (970) 491-6220
Last modified on August 12, 2004

ENGINEERING STUDENT TECHNOLOGY COMMITTEE

The Engineering Student Technology Committee (ESTC) is charged with the management and distribution of the technology charge paid by students in the College of Engineering. It reports to the Dean of Engineering and is governed by the CSU Charges for Technology Manual.

The ESTC sends representatives to the University Charges for Technology Committee, the governing body for the charge for technology process at Colorado State University.

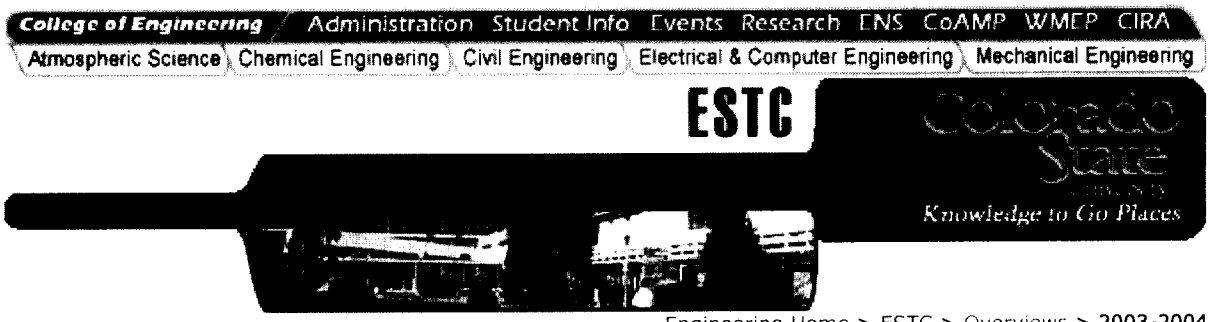
Have ideas on how to spend your technology charge funds?
Like to see some changes made in the labs?
Leave a suggestion for the committee as a whole or contact your departmental representatives.

- ESTC Membership
- Committee Activity by Year
- Charges for Technology manual (Word document)
- University Charges for Technology Committee (ACNS link)

FREQUENTLY ASKED QUESTIONS

- What is the current charge for technology for Engineering students?
- How is the ESTC membership determined?
- How is the Charge for Technology fund spent?

Contact Webmaster
College of Engineering (970) 491-6220
Last modified on February 25, 2003



ENGINEERING STUDENT TECHNOLOGY COMMITTEE

REVIEW OF ACADEMIC YEAR ACTIVITY

2003-2004

Semester charge for technology was $150 (no summer charge).

- Academic Year Budget: table or pie chart
- Actual Annual Expenses
  - Expenses by Budget: table or pie chart
  - Expenses by Category: table or pie chart
- Special Projects
  - Biomedical Engineering Laboratory - $5,000
  - Clock in Lockheed Martin Design Studio - $30
  - Electronic Classroom at the Engineering Research Center - $5,000
  - Performance Engineering Mobile Computer Laboratory - $7,500
- Meeting Minutes (posted when approved)
  - September 25, 2003
  - September 30, 2003
  - October 7, 2003
  - October 28, 2003
  - November 4, 2003
  - December 2, 2003
  - February 3, 2004
  - February 10, 2004
  - March 2, 2004
  - March 23, 2004
  - March 30, 2004
  - April 13, 2004
  - April 27, 2004
- Committee Membership

Contact Webmaster
College of Engineering (970) 491-6220
Last modified on August 18, 2004

Student Charges for Technology Fund

College of Engineering

Colorado State University

Academic Year 2004-2005 Budget

	Forward from FY04	FY05 Allocation	Total FY05 Budget
Advance Purchases	$60,000	$0	$60,000
Assistive Technology	$0	$2,000	$2,000
Business Expenses	$0	$3,000	$3,000
Central Services & Systems			
Computer Lab Equip. Replacement	$52,537	$149,000	$96,463
Laboratory Maintenance & Support	$3,863	$23,000	$19,137
Network Maintenance	$2,261	$4,000	$1,739
Server Maintenance & Support	$35,491	$70,000	$34,509
Student Wages	$0	$70,000	$70,000
Department Allocations			
Atmospheric Science	$3,328	$21,000	$24,328
Chemical Engineering	$3,586	$19,900	$23,486
Civil Engineering	$14,106	$30,000	$44,106
Electrical & Computer Engineering	$3,694	$16,800	$20,494
Intra-departmental majors	$3,000	$5,000	$8,000
Mechanical Engineering	$4,372	$38,300	$33,928
Scholarships	$0	$53,000	$53,000
Strategic Initiatives	$15,939	$20,000	$35,939
	$5,129	**$525,000**	**$530,129**

Student Charges for Technology Fund

College of Engineering
Colorado State University

Academic Year 2003-2004 Revenue & Expenses

		FY04 Budget	FY04 Actual
Revenue			
	FY03 Carry Forward	$15,921	$15,921
	New Equipment Reimbursements		$6,359
	Print Quota Purchases		$2,973
	Technology Charge (Fall)	$286,000	$267,831
	Technology Charge (Spring)	$234,000	$243,117
	Used Equipment Sales		$16,010
		$535,921	**$552,211**
Expenses			
	Advance Purchases	$60,000	$0
	Assistive Technology	$2,000	$2,479
	Business Expenses	$3,000	$1,532
	Central Services & Systems		
	Computer Lab Equip. Replacement	$27,930	$84,232
	Laboratory Maintenance	$14,146	$21,273
	Network Maintenance	$3,965	$7,385
	Server Maintenance & Support	$68,319	$115,234
	Student Wages	$65,000	$63,178
	Department Allocations		
	Atmospheric Science	$23,977	$22,826
	Chemical Engineering	$12,673	$16,387
	Civil Engineering	$43,692	$29,586
	Electrical & Computer Engineering	$23,412	$19,970
	Intra-departmental majors	$12,000	$9,000
	Mechanical Engineering	$57,481	$61,852
	Scholarships	$55,000	$52,363
	Strategic Initiatives		
	Compute Power	$10,000	$10,000
	EECL Computer Lab	$20,000	$20,000
	Environmental Engineering Lab	$11,000	$2,248
	Graduate Citrix Farm	$5,000	
	Other	$17,326	$7,536
		$535,921	**$547,082**
	Carry Forward to FY04:		$5,129

Actual Expenses by Category

Assistive Technology	***$2,479***
Backup Supplies	***$1,030***
Backup Equipment	***$4,254***
Computer Maintenance & Repair	***$1,438***
Computer Peripherals	***$1,019***
Computer Upgrades	***$751***
Computers	***$84,911***
Laboratory Equipment	***$66,032***
Laboratory Equipment Maintenance	***$1,825***
Laboratory Improvements	***$4,410***
Laboratory Equipment Supplies	***$796***
Modem Access for Students	***$928***
Monitors	***$15,519***
Network Equipment	***$8,299***
Network Improvements	***$2,833***
Network Maintenance	***$1,390***
Network Supplies	***$444***
Paper	***$5,504***
Printer Maintenance	***$2,730***
Printers	***$33,529***
Projection Equipment	***$7,872***
Revenue Collection Expenses	***$1,532***
Scholarships	***$52,363***
Security Systems	***$195***
Server Maintenance & Repair	***$1,539***
Server Peripherals	***$98***
Server Upgrades	***$1,422***
Servers	***$24,084***
Software	***$51,043***
Storage (network File Space)	***$91,133***
Student Wages	***$63,178***
Telephone Charges	***$795***
Toner, fusers, and drum/transfer kits	***$11,708***
Total expenditures	***$547,082***

Charges for Technology Fund

College of Engineering
Account Number 259130
Fiscal Year 2004 (July 1, 2003 - June 30, 2004)

Account Summary	Total Revenue	Balance Forward '02-'03	Expenses Paid	Funds Transferred	Account Balance
	$531,789.75	$15,920.52	$542,580.98	$0.00	$5,129.29

Budget Summary	Budget	Additional Allocation	Where is the additional from?	Expenses Paid	Funds Moved	Balance	Comments
	520,000	43,996.11		542,580.98	21,415.13	0.00	0.00
Central Services & Systems	294,000	88,690.26		291,301.97	85,992.23	$0.00	
Equipment Replacement	135,000	102,145.97		84,232.15	51,377.72	$0.00	
Balance Forward from FY03		107,069.68					
Budget Transfer					1,159.20		*transfer to Network Equipment*
Computers		2,954.11	Credits & Revenue	40,300.00			7/21/03 CIS 061260
Laser Printer (Color)				7,170.00			5/13/04 CIS 065366
Laser Printers (Black & White)		550.00	Credits & Revenue	8,607.00			5/13/04 CIS 065366
Loaner Projectors				1,795.00			5/21/04 ACard Ritschard
Monitors		1,420.00	Credits/Revenue & ECE	8,120.00			5/13/04 CIS 065347
Plotter (60")				14,690.00			5/13/04 CIS 065366
Projectors (LMDS & ERC)				7,697.00			7/7/03 CIS 060862, 9/2/03 CJE ENG434, 6/15/04 CIS 066087
Scanners		0.00	Credits & Revenue	853.15			7/9/03 CIS 060950, 8/5/03 ACard Ritschard, 9/4/03 & 5/20/04 ACard Massey
Smart Boards for LMDS							7/7/03 CIS 060861, 10/16/03 CJE ENG118
Balance Forward to FY05					52,536.92		
Laboratory Maintenance and Support	20,000	2,589.22		21,273.40	3,862.62	$0.00	
Balance Forward from FY03		5,854.17					
Cabinet Locks				7.98			3/8/04 ACard Massey
Computer Table reinforcement				5.39			1/12 & 1/13/04 ACard Massey
Exceed licenses				1,486.51			5/11/04 IMO 183491
Help Desk Stapler & Hole Punch				68.38			4/5/04 IMO Bookstore
Help Desk supplies				319.84			9/22/03 PC Massey, 10/21/03 ACard Massey, 11/20/03 ACard Herrick, 2/19 & 3/8/04 IMO Bookstore, 5/5/04 ACard Massey
Lab Signs				10.50			2/4/04 IMO CopyRite
Laboratory supplies		288.00	Credits & Revenue	128.22			7/7 & 7/10 ACard Ritschard, 8/4 ACard Massey, 8/8 PC Massey, 9/6/03 Bookstore (CJE), 6/29/04 ACard Ritschard
Loaner Pool labels				15.00			8/20 CopyRite Herrick
Loaner Pool replacements				69.55			1/16/04 & 2/19/04 ACard Marples
Paper		376.95	Credits & Revenue	4,428.57			7/10 & 9/11& 9/30 & 11/10 & 12/10/03, 1/29 & 3/1 & 3/2 & 3/3 & 3/29 & 4/13 & 5/7 & 5/11/04 ACard Massey
Printer Repair				1,698.14			ACNS work orders: 10/16/03 30450, 11/3/03 30474, 11/18/03 030501, 12/17/03 030568, 12/22/03 030572, 1/5/04 040007, 2/11 40086, 2/25 40108
Printers - paper bin security				104.89			9/1 & 9/4 ACard Massey
Projector Repair				417.00			5/7/04 ACard Massey
Solaris license renewal				96.88			7/17/03 IMO 172166
Tech Shop USB removeable HD				117.09			4/19 IMO PB240110
Telephone Service				445.32			FRS reports, subcode 4250
Toner, fuses, and drum/transfer kits		2,600.00	Credits & Revenue	11,255.91			5/6 & 7/31 & 9/11 & 9/25 & 10/9 & 11/18 & 12/10/03, 1/28 & 2/4 & 2/28 & 3/10 & 3/11 & 4/2 & 4/30 & 6/2/04 ACard Massey
Workstation Repairs				598.23			2/12/04 IMO CopyRite, 2/5/04 ACard Keist
Balance Forward to FY05					3,862.62		
Network Tools & Maintenance	4,000	1,124.09		7,384.69	2,260.60	$0.00	
Balance Forward from FY03		95.11					
Budget Transfer		1,159.20					*transfer from Equipment Replacement*
Foothills (AERC & ERC) network upgrades				2,691.17			3/25/04 ACard Ritschard, 4/28/04 IMO CopyRite
Network Equipment				3,256.00			5/27/04 CIS 065619
Network punch-down tool				10.00			11/19/03 ACard Keist
Network supplies				47.52			11/18/03 ACard Massey, 1/14/04 ACard Keist
Underground Fibre Charge (ACNS)				1,380.00			FRS reports, subcode 4052
Balance Forward to FY05					$2,260.60		
Servers & Services	70,000	14,920.44		115,233.85	30,313.41	$0.00	
Balance Forward from FY03		1,680.56					
Budget Transfer					5,177.88		*to Chemical Engineering for student employee support*
Alumni mail server upgrades				694.93			7/22 & 8/4/03 ACard Keist, 9/4/03 CopyRite
Backup Equipment upgrades				570.03			2/19/04 ACard Mapel
Backup Software				166.29			2/4/04 ACard Mapel
Backup Tapes		1,200.00	Credits & Revenue	1,029.99			7/8/03 ACard Mapel, 10/31 & 11/18, 24 & 12/10 & 18/03, 1/6/04 ACard Ritschard, 1/27/04 PC Ritschard, 5/14/04 ACard Ritchard
Citrix license renewal				5,175.00			5/4/04 CIS 065182
Compute Server (Sunray)				1,400.00			5/27/04 CJE ENG604
Dell Server Maintenance				1,283.75			3/12/04 ACard Mapel
E-mail server upgrades				726.70			7/25/03 ACard Keist
Grid Controller Server				3,397.50			5/20/04 CIS 065479
Loaner Laptop memory				17.99			11/17/03 ACard Herrick
Print Quota Servers				1,838.00			6/18/03 CIS 060386
Solaris license renewal				96.88			7/17/03 IMO 172166
Spectralogic tape library				3,683.62			10/28/03 ACard Ritschard, 11/12/03 ACard Mapel
Student File Server				79,232.00			5/19/04 CIS 065437
Sun D1000's for /topiClasses		15,401.00	Credits & Revenue	9,000.00			8/26/03 CJE ENG361
Sun E250 for ERC Lab				2,300.00			8/26/03 CJE ENG361
Sunray CPU board (repair)				255.00			9/3/03 ACard Keist
UPS's for servers				97.99			4/14/04 ACard Keist
Virtual Lab web server				4,268.18			5/26/04 CIS 065580
Balance Forward to FY05					$35,491.29		
Student Wages & Benefits (lab support)	65,000	0.00		63,177.88	1,822.12	$0.00	
Budget Transfer					1,822.12		*to Chemical Engineering for student employee support*
C Carlin, Will				131.50			FRS Budget Reports, subcodes 2611 & 2612
T Crane, Andrew				5,991.15			FRS Budget Reports, subcodes 2611 & 2612
C Fleming, Ryan				4,441.37			FRS Budget Reports, subcodes 2611 & 2612
C Forsling, Henrik				5,249.91			FRS Budget Reports, subcodes 2611 & 2612
C Hoops, Matthew				814.12			FRS Budget Reports, subcodes 2611 & 2612
T Kamalakar, Brahmilla				5,945.84			FRS Budget Reports, subcodes 2611 & 2612
T Kumar Thangaraj, Charles				9,331.45			FRS Budget Reports, subcodes 2611 & 2612
T Lakhva, Fazal				839.79			FRS Budget Reports, subcodes 2611 & 2612
C Liberatore, Joe				1,054.39			FRS Budget Reports, subcodes 2611 & 2612
T Loyd, Sean				6,149.07			FRS Budget Reports, subcodes 2611 & 2612
C Natelli, Sara (Skinner)				2,741.48			FRS Budget Reports, subcodes 2611 & 2612
C Raza, Abdul				1,517.57			FRS Budget Reports, subcodes 2611 & 2612
C Saikia, Ranjan				3,447.74			FRS Budget Reports, subcodes 2611 & 2612
T Satyavolu, Praveen				9,916.13			FRS Budget Reports, subcodes 2611 & 2612
C Vallely, Justin				2,990.02			FRS Budget Reports, subcodes 2611 & 2612
C Vyas, Sachin				2,616.35			FRS Budget Reports, subcodes 2611 & 2612
summer '03 wages (actual)	*13,039.80*						
fall '03 wages (actual)	*24,531.95*						
winter '03-'04 wages (actual)	*2,877.77*						
spring '04 wages (actual)	*20,493.95*						
summer '04 wages (actual)	*2,432.86*						
Departmental Allocations	120,000	62,963.22		155,120.61	27,842.61	$0.00	
Atmospheric Science	19,000.00	7,153.66		22,825.75	3,327.91	$0.00	*Fall Tech Charge Revenue: $10,780.50; Spring: $10,396.50*
Dept. Revenue above budgeted $19K		2,177.00					
Balance Forward from FY03		4,976.66					
Apple Laptop				2,535.00			
Camcorder battery & flash card				30.64			7/1/03 ACard Marquez
Classroom Projector				3,380.14			8/7/03 CIS 061561, 8/12/03 ACard Marquez, 2/3 & 2/23/04 ACard Marquez
Computer Upgrades				498.31			1/12 & 1/27 & 1/30 & 3/2/04 ACard Marquez
Conference Telephone				349.99			7/1/03 ACard Marquez
Digital Camera Accessories				187.39			9/9 & 9/12 & 9/16/03 ACard Marquez
Digital Thermometers				168.00			10/14/03 ACard Burke
Exceed license renewal				33.63			9/23/03 IMO 174747
Fluent License renewal				922.50			12/2/03 CIS 063383
GPS Equipment				474.95			12/10/03 ACard Marquez
Labview license renewal				0.00			7/23/03 CIS 061320. CJE ENG434
Laptops				3,347.43			4/14/04 ACard Tourville
Matlab license server				1,390.41			
Matlab licenses				1,062.00			4/2 ACard Tourville
Spin Tank				890.67			4/1& 4/5/04 ACard Ellis, 4/19/04 ACard Flint
Student Modem Access				928.00			
Video card				145.70			7/10/03 ACard Marquez
Video Visualizer				1,820.00			12/10/03 ACard Marquez
Weather Instruments				1,199.75			12/10/03 ACard Marquez
Wireless network equipment				3,461.25			11/24/03 CIS 063326
Balance Forward to FY05					$3,327.91		
Chemical Engineering	12,800.00	7,173.45		16,387.36	3,588.09	$0.00	
Balance Forward from FY03		126.56					
Budget Transfer		7,000.00					*from Servers & Services*
Aspen license renewal				1,200.00			8/6/03 ACard Gonzales
Aspen PIMS & MIMI software				1,000.00			5/03 ACard Gonzales
Chairs (161 lab)				350.00			2/6/04 IMO 179638
Computer Repairs				74.00			9/10/03 ACard Herrick, 2/10/04 ACard Herrick
Computer Supplies				48.64			10/10 Bookstore
Computers (Glover 146c)		300.00	Credits & Revenue	8,336.00			7/24/03 CIS 061347
Fluent License renewal				922.50			12/2/03 CIS 063383
Labview license renewal				638.70			7/23/03 CIS 061320
Maple license renewal				625.00			9/8/03 IMO PB19009
Matlab license renewal				560.30			7/29/03 CIS 061408
Monitor (Glover 161)				579.60			2/6/04 CJE ENG959
Monitors (Glover 146c)				1,043.80			8/1/03 ACard Ritchard, 11/5/03 ACard Ritschard
Network Improvements				55.54			3/04 Gonzales
Polymath license renewal				100.00			7/15/03 ACard Massey
Printer Maintenance Contract				600.00			7/18/03 Software Cellar
Toner				253.26			5/21/04 IMO PB24668
Balance Forward to FY05					$3,586.09		
Civil Engineering	32,700.00	10,991.89		29,586.27	14,105.62	$0.00	
Balance Forward from FY03		10,991.89					
ARCview license renewal				1,900.00			7/17/03 IMO M658524
ATS testing machine upgrades				4,166.50			8/11/03 CIS 061630
Autocad license renewal				3,676.40			7/17/03 IMO M658524
Data Acquisition Software				262.75			1/19/04 ACard Wilmetti
Environmental Lab reactor equip.				8,900.18			8/26/03 CIS 061956, 9/24/03 ERC charges, 10/3/03 CIS 701683
Environmental Statistics databases				978.00			8/28/03 ACard Wittstock
Fluent License renewal				2,152.50			12/2/03 CIS 063383
Heat Guns (Thermal Fluids lab)				213.48			4/8/04 ACard Wilmetti
Labview license renewal				638.72			7/23/03 CIS 061320
Maple license renewal				1,875.00			9/8/03 IMO PB19009
Matlab license renewal				704.55			7/29/03 CIS 061408
Surveying equipment				2,428.57			8/21/03 ACard Wilmetti
Toner				98.62			9/29/03 IMO PB19735
Torsion Machine - recalibration				1,050.00			3/29/04 ACard Wilmetti
Waterloo UnSat Suite				541.00			1/12/04 ACard Charlie
Balance Forward to FY05					$14,105.62		
Electrical & Computer Engineering	16,600.00	7,063.60		19,249.92	4,413.68	$0.00	
Balance Forward from FY03		6,811.60					
CD drive tray drive belts				20.75			10/21/03 ACard Aurand
Electronics Boards				4,876.25			7/22/03 CIS 061286
Electronics Components				307.54			2/16 & 3/9/04 ACard Aurand
Equipment Repair (Menoni)				173.85			9/10/03 ACard Menoni
Hard Disk replacements				675.75			6/30/03 ACard Aurand
Labview license renewal				638.72			7/23/03 CIS 061320
Mathcad license renewal				1,600.00			1/5/04 CIS 063722
Matlab license renewal				1,403.74			7/29/03 CIS 061408
Mentor Graphics license renewal		252.00	Credits & Revenue	2,016.00			9/20/03 CIS 061834
Monitors (used)					720.00		*transfer to Equipment Replacement (monitors from Anderson Lab)*
Pager				1,075.00			7/10/03, 1/29/04 ACard Massey
Printer Maintenance & Repair				432.01			12/12/03 ACNS wo, 12/29/03 ACNS wo, 4/13 ACNS wo
Senior Design Projects				2,930.31			subcode 3416 FRS report, 4/30/04
Synopsis license renewal				3,000.00			3/4/04 CIS 064324
Toner				100.00			7/10/03 IMO by Mary Casey
Balance Forward to FY05					$3,693.68		
Intra - departmental majors	3,000.00	9,000.00		9,000.00	3,000.00	$0.00	
Biomedical Engineering Lab					$3,000.00		*project balance forward to FY05*
Environmental Engineering Lab		9,000	FY03 balance forward			$0.00	*project balance*
Environmental Lab Equipment				7,765.99			1/15/04 CIS 063830
Deionization Water System				1,234.01			1/7/04 CIS 063755
Mechanical Engineering	35,900.00	21,580.62		58,071.31	590.69	$0.00	
Balance Forward from FY03		21,580.62					
AERC Sunray network				70.00	880.00		9/30/03 IMO 175096, *move funds to Equipment Replacement as reimbursement for Sun grant spares: Blade 100 & keyboard & internal DVD*
Adams Simulation Program				800.00			ACard Fitzhorn
Arena license				2,025.00			9/24/03 CIS 062486
Biaxial Mechanical Testing Machine (time using)				660.00			12/31/03 FRS report, subcode 4040
Computer for Machine Shop				1,184.00			6/19/03 CIS 060411
CNC machine upgrade				524.70			ACard Schaeffer
Engines & Energy Conversion Lab							*project balance*
Computer Supplies				89.42			10/1/03 ACard Nugent
Computer Tables & Chairs				3,497.70			7/14,16 & 8/21,22 & 9/9,18,25,29,30 & 10/1,2,7,9,13,24 & 11/13/03 ACard Nugent; 7/21,22 & 10/9/03 ACard Evans; 10/14,17/03 ACard Hayes
Network Equipment				69.51			11/13/03 ACard Nugent
Network Supplies				396.81			9/11/03 ACard Evans, 9/17/03 ACard Nugent
Notebook security				81.68			10/27/03 ACard Nugent
Plasma Display				2,356.26			11/19/03 CIS 063262
Wireless network				1,442.40			6/25/03 ACard Nugent
Fluent License renewal				2,152.50			12/2/03 CIS 063383
FSAE Equipment				18,270.66			
Labview license renewal				638.72			7/23/03 CIS 061320
Machine Shop Elec. Discharge Machine				1,250.00			3/31/04 IMO 181714
Machine Shop Equip. Maint.				184.41			
Machine Shop Metal Lathe				5,394.95			3/10/04 CIS 064423
Machine Shop (AERC) Metal Lathe				500.00			3/31/04 IMO 181714
Mathcad license renewal				1,600.00			1/5/04 CIS 063722
Matlab license renewal				488.01			7/29/03 CIS 061408
Minitab license renewal				341.25			7/7/03 CIS 060866
PERC mobile lab				6,722.35			3/24/04 CIS 064625
Prof/E license renewal				2,500.00			6/9/03 CIS 059932
ProCam license renewal				200.00			9/30/03 ACard Marples
Snowmobile Team Dynamometer				332.00			2/20/04 ACard Kirkpatrick
StarCD license renewal				2,000.00			7/24/03 ACard Kirkpatrick
T:\classes\ME 250GB quota (expires 5/1/06)					2,901.00		5/4/03 transfer to Servers & Services
VisualStudio license renewal				799.00			11/12/03 ACard Ritschard
Wave license renewal				1,500.00			1/13/04 ACard Marples
Balance Forward to FY05					$4,371.69		
Miscellaneous	60,000	0.00		56,374.36	3,625.64	$0.00	
Assistive Technology	2,000.00			2,479.00	479.00		FRS Budget Reports, subcode 175; balance moved to strategic initiatives
Bad Debt	1,500.00			1,532.18	32.18		FRS Budget Reports, subcode 4500; balance moved to strategic initiatives
Credit Card Expenses	1,500.00			0.18	1,499.82		FRS Budget Reports, subcode 5640; balance moved to strategic initiatives
Scholarship payments	55,000.00			52,363.00	2,637.00		FRS Budget Reports, subcode 5180; balance moved to strategic initiatives
Strategic Initiatives	46,000	9,723.15		39,784.04	15,939.11	$0.00	
Adjustment for Actual Tech Fund Revenue		9,051	Credits & Revenue				
Adjustment for Atmos revenue		2,177	Atmos. Sci.				
Compute Power	5,000	5,000	FY03 balance forward	10,000.00			5/27/04 CJE ENG604
Engines & Energy Conversion Lab	10,000	10,000	FY03 balance forward				
Computer Tables				556.84			7/14 & 7/16 ACard Nugent, 7/21 & 7/22 ACard Evans
Dell laptops				4,865.40			6/23/03 CIS 060497
HP printer				3,062.40			6/23/03 CIS 060504
Monitors				2,699.20			7/9/03 CIS 060950, 7/11/02 ACard Nugent
Network Improvements				86.16			8/5 & 8/11 ACard Nugent
Tangent design computer				2,214.00			7/9/03 CIS 060949
Tangent computers				6,516.00			7/31/03 CIS 061415
Environmental Engineering Lab		11,000	FY03 balance forward		8,751.98		*project balance forward to FY05*
Deionization Water System				2,248.02			1/7/04 CIS 063755
Unallocated	31,000	5,048.54	FY03 forward & Misc				*project balance forward to FY05*
Biomedical Engineering lab					2,000.00		*project balance forward to FY05*
Clock for LMDS				21.33			4/2/04 PC Fleming
ERC Electronic Classroom					5,000.00		*project balance forward to FY05*
PERC mobile lab				7,500.00			3/10 ACard Ritschard, 3/24 CIS 064625
Signs for Labs indicating funding				14.69			6/5/03 PC Crane
Balance Forward to FY05					$187.13		
Advance Purchases for '04-'05	0.00	60,000.00		0.00	60,000.00	$0.00	
Balance Forward from FY03		60,000.00					
Balance Forward to FY05					60,000.00		

Credits & Revenue	Total	Moved to Budget	Moved to Category	Total Revenue
	531,789.75	15,173.00		$531,789.75
Credits (FRS subcodes 800-8999)	15,173.00	15,173.00		$15,173.00
Print Quota Purchases (cash)	2,600.00	2,600.00	Lab Maint.	EBO deposit receipts: 7/14 320405, 7/30 320411, 8/25 320422, 9/23 320440, 10/20 320459, 12/1 320478, 12/15 320483, 1/26 320500, 2/23 5012, 4/5 5055, 5/17 5089, 6/11 5099, 6/29 5
Scanner Purchases (refunds)	15.00	15.00	Equip. Replace	IMO's: 3/29 181574
Smart Card Purchases (cash)	88.00	88.00	Lab Maint.	EBO deposit receipts: 10/20 320459, 12/15 320483, 1/26 320500, 4/5 5055, 5/17 5089
SunFire V880 for fac/staff U: drives	12,500.00	12,500.00	Servers	8/26/03 CJE ENG361
Revenue (FRS subcodes less than 800)	$16,616.75	0.00		$516,616.75
Citrix Farm access for faculty & staff	1,200.00	1,200.00	Servers	IMO's: 8/14 173085, 8/20 173306, 2/17/ 180051
Computer Purchases (used from/to CN	300.00	300.00	Chem Eng.	IMO's: 7/11 171960
Computer Purchases (used)	1,240.41	1,240.41	Equip. Replace	IMO's: 7/9 171911, 7/18 172230, 9/23 174722
Fall Technology Fee	267,831.29			
Furniture Purchases (new)	200.00	200.00	Lab Maint.	7/22/03 IMO 172338
Monitor purchases (used)	700.00	700.00	Equip. Replace	IMO's: 7/7 171768, 7/9 171910, 7/22 172317, 9/10 174178
Paper Purchases	4.45	4.45	Lab Maint.	IMO's: 2/4 179551
Print Quota Purchases (account charg	372.50	372.50	Lab Maint.	IMO's: 7/7 171771, 10/30 176399, 11/18 177111, 11/21/03 177266, 12/8 177715, 2/9 179784, 2/25 18035[4,5], 4/1 181777, 4/15 182351, 5/11 183434, 5/26 184057
Printer Purchases (used)	550.00	550.00	Equip. Replace	IMO's: 2/4 179551, 2/19 180151
Scanner Purchases (used)	15.00	15.00	Equip. Replace	IMO's: 2/4 179551
Software Reimbursements	252.00	252.00	ECE	
Spring Technology Fee	243,117.40			
Sun Keyboards & Mice (new)	117.00	117.00	Equip. Replace	IMO's: 7/15 172064, 11/7 176715
Sunray purchases (new)	716.70	716.70	Equip. Replace	IMO's: 9/9 174144, 4/1 181778, 5/5 183203

Charges for Technology

College of Engineering

Lab Equipment Purchased in 2004

Actual Equipment Purchased	*comp*	*graph work*	*UNIX work*	*thin clients*	*19" flat panel*	*21" Trinitron*	*19" Trinitron*	*B/W laser*	*color laser*	*36" plot*	*60" plot*	*scan*	*large scan*	*photo scan*	*dig send*	*proj*	*plasma*	*smart brd*	*Equip. Value*
AERC																			0
Allison Hall																			0
Anderson Lab	**3**						**34**	**3**											22,390
Design Studio	**6**								**1**		**1**	**2**		**2**					33,963
Technical Shop	**1**						**1**												1,970
Electronic Classroom																			0
ERC lab																**1**		**1**	3,448
GIS lab	**21**																		36,505
Internet Café																			0
Loaner pool	**3**															**1**			7,461
	34	0		0	0	0	35	3	1	0	1	2	0	2	0	2	0	1	105,738

	Actual Cost		*Budgeted*	diff	mult.	total
computer	1,738		1,500	238	3	715
graphics workstation		N/A	3,000	0		
UNIX workstation		N/A	6,000	0		
thin-client		N/A	900	0		
19" flat panel display		N/A	550	0		
21" Trinitron monitor		N/A	500	0		
19" Trinitron monitor	232		300	68	35	2,380
black & white laser printer	3,096		2,500	596	3	1,787
color laser printer	6,620		4,500	2,120	1	2,120
36" color plotter		N/A	8,000			
60" color plotter	14,690		14,000	690	1	690
regular scanner	931		250	681	1	681
large-format scanner		N/A	1,600	0		
photo scanner	180.81		200	19	2	38
digital sender		N/A	1,700	0		
projector	2,246		2,800	554	2	1,108
plasma display		N/A	13,000	0		
smart board	1,202		1,600	398	2	797
						1,670

September 1, 2004

«FName» «LName»
«HomeAddr»
«HomeCity», «HomeST» «HomeZip»

Dear «FName»:

I am pleased to inform you that you have been selected to receive a $«Total» Engineering Student Technology Committee (ESTC) scholarship. One half of the award will be available for the fall 2004 semester and the second half for the spring 2005 semester if the criteria continue to be met. You must be enrolled in the College of Engineering, registered for at least 12 credits per semester counting toward your engineering degree requirements[“.” (for need based) *or* “, and maintain a cumulative 3.0 GPA.” (for merit based)]

The ESTC is proud to be able to give back to fellow students. We want everyone to have an equal opportunity to achieve their educational dreams and not be hindered from a quality education because of financial difficulties. Our goal is to help students succeed in their engineering education!

The committee likes to hear from our recipients. We would be grateful for a note about yourself and your academic progress as well as your future plans. We trust that this scholarship will help you fulfill your academic goals and would enjoy hearing from you. We wish you all the best in your academic achievements.

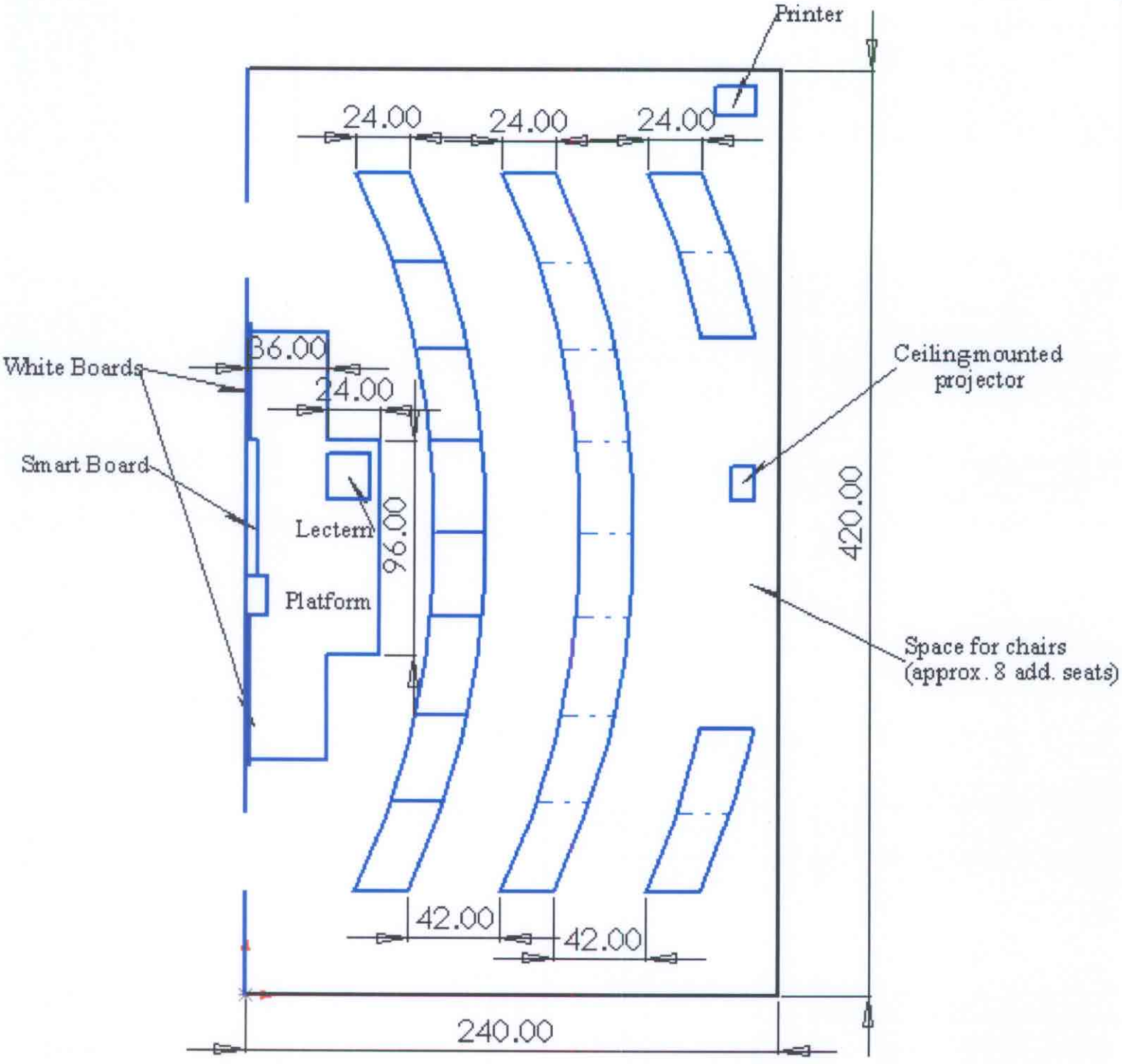
For more information about the ESTC, please see http://www.engr.colostate.edu/ESTC.

Sincerely,

Thomas Siller
Associate Dean
Academic Affairs

<<current ESTC chair>>
Chair
Engineering Student Technology Committee

ESTC Award	Lname	Fname	Middle	Majr	RqrdGPA	Total
merit-1000	Espinoza	Paul	Andrew	CE	3.00	$1,000.00
merit-1000	Mashl	Casey	Lynn	ChE	3.00	$1,000.00
merit-1000	Quillen	Kristopher	Paul	ME	3.00	$1,000.00
merit-1000	Shideler*	Emily	Ann	EE	3.00	$1,000.00
merit-1000	Vance	Amanda	Lynn	CE/ESspace	3.00	$1,000.00
merit-1400	Dodson	Christina	Lael	ENV	3.00	$1,400.00
merit-1400	Doner	Eric	Oliver	EE	3.00	$1,400.00
merit-1400	Harper	George	Dodson	CE	3.00	$1,400.00
merit-1400	Marich	Jennifer	Lynne	CE	3.00	$1,000.00
merit-1400	Miller	Timothy	Brian	CHE	3.00	$1,400.00
merit-1400	O'Rourke	Justin	Patrick	CHE	3.00	$1,400.00
merit-1400	Rodrian	Logan	Paul	CpE	3.00	$1,400.00
merit-1400	Roszelle*	Breigh	Nonte	ME	3.00	$1,400.00
merit-1400	Ruch	Andrew	David	CpE	3.00	$1,400.00
merit-1400	Shannon	Ryan	Lee	ME	3.00	$1,400.00
merit-1400	Simpson	Erin	K.	ME	3.00	$1,400.00
need-1000	Doyle	Paul	F	ME	2.00	$1,000.00
need-1000	Johns	Eric	Christopher	ME	2.00	$1,000.00
need-1000	Johnson	Craig	Murell	CpE	2.00	$1,000.00
need-1000	Mathews	Jay	Aaron	EE	2.00	$1,000.00
need-1000	McKinney	Chad	William	ENV	2.00	$1,000.00
need-1000	Merz	Lindsay	Leigh	CE	2.00	$1,000.00
need-1000	Redden	Andrew	Guy	ME	2.00	$1,000.00
need-1000	Reinholz	Daniel	Lee	EE	2.00	$1,000.00
need-1000	Umland	Robert	Tybalt	CpE	2.00	$1,000.00
need-1000	Woodworth	Jonathan	David	ME	2.00	$1,000.00
need-500	Andersen	Karena	Kay	CpE	2.00	$500.00
need-500	Davis	Michael	Jason	ME	2.00	$500.00
need-500	Durland	Garrett	Waggoner	EE	2.00	$500.00
need-500	Franco	Humberto	Ivan	CE	2.00	$500.00
need-500	Guzman	Elisa	Marina	ME	2.00	$500.00
need-500	Hicks	Jonathan	C	ME	2.00	$500.00
need-500	Johnson	David	A	CE	2.00	$500.00
need-500	Johnson	Eric	Matthew	CE	2.00	$500.00
need-500	Johnson	Nathaniel	Thomas	ME	2.00	$500.00
need-500	Koehn	Justin	Lynn	ME	2.00	$500.00
need-500	Komorowski	Jason	Scott	ME	2.00	$500.00
need-500	Lanning	Matthew	William	EE	2.00	$500.00
need-500	Mapes	Terry	Steven	ME	2.00	$500.00
need-500	Rupp	Victoria	Marie	CE	2.00	$500.00
need-500	Senyk	Borys	Elia	CpE	2.00	$500.00
need-500	Stabler	Jennie	Marie	CE	2.00	$500.00
need-500	Sullivan	Sean	Colin	ME	2.00	$500.00


Printer
24.00
24.00
24.00
White Boards
36.00
24.00
Smart Board
Lectern
96.00
Platform
Ceiling-mounted projector
420.00
Space for chairs (approx. 8 add. seats)
42.00
42.00
240.00

SMARTdesks Design D543 for Colorado State U - August 31, 2004