

Engineering Student Technology Committee
April 13, 2006

Electronic Classroom, 8:00am

Present: Klaus Hartinger (ECE), Amanda Kaiser, chair (ME),
Prof. Antonio Carraro (CE), Evan Mueller (CBE), Mark Ritschard
(ENS), Audrey Twiford (ME), Prof. David Alciatoire (ME), Dr. Tom Siller
(Academic Affairs)

Absent: Scott Chase (ME), Prof. Tom Chen (ECE), Laura Ciasto (Atmos),
Prof. Jeff Collett (Atmos), Mike Floren (CBE), Henrik Forsling (CE),
Kendra Gabbert (CE), Heidi Shray (ECE), Kelley Johnson (Atmos),
Prof. David Wang (CBE), Brian Lee (intra), unfilled - undergraduate
(Civil), unfilled - undergraduate (ECE), Scott Lynn (CBE),

- Introductions:

Kaiser opened the meeting with introductions and an overview of
today's meeting.

- Review of Minutes from Meetings of 3/23/06. Minutes were approved.
- Ritschard reviewed how ENS reviewed how ENS was able to adjust the server budget to 85K, as decided upon in the 3/23/06 meeting.
- Ritschard reviewed small correction needing to be made to the lab equipment list. The monitors at the lectern had been neglected in C211 and the ERC lab. The changes were approved.
- Ritschard presented a proposal from the Civil Engineering department to assist with the improvement of the GIS lab. The UTFAB will also be assisting in the funding of this project. Civil is contributing \$49,000 to the project. The GIS lab is to be converted to thin clients. A request has been made to ENS to look into putting CD drivers/burners on the thin clients. This will cost an extra \$1,500 for to support this proposal, however this is about how much is made back in equipment sales every year. Hartinger made a motion to approve this proposal. Alciatoire made the second. The proposal was approved.
- Ritschard presented an opportunity from Microsoft, in which everyone every student would have a license, meaning office could be put on Virtual Lab. Each student would also get a copy of windows when they graduated. There was discussion about the price increase. This subject was tabled for review by next year's committee.
- Kaiser presented some concerns from some of the grad students, regarding thesis printing and the cost of print credits. As one's thesis has to be printed on special paper that is \$20 a ream, some do not want to pay full price for print credits while printing their thesis. This subject was tabled for review by next year's committee.
- Twiford was elected chair of the 2006-2007 ESTC committee.
- Mueller and Twiford are to be the 2006-2007 student representatives for the CFT
- Mueller is to be the representative for 2006-2007 on the UTFAB.

The next meeting will be fall of 2006, to be announced by Twiford. The meeting adjourned at 9:12am.

Respectfully submitted,
Amanda Kaiser

Charges for Technology

College of Engineering

Server Maintenance & Support Budget Calculation for FY07

Purpose	Server	Student share	Cost to Replace	Student Cost	life cycle	Annual Cost	(covered by Lab Equipment Replacement Budget)
Backup	Snoopy	53%	8,000	4,206	4	1,051	
Backup	Backup Tape Library	53%	75,000	39,427	5	7,885	
Card Reader Servers	doorlock servers	100%	7,000	7,000	5	1,400	
Compute Servers	<i>Proposed to Replace UNIX v</i>	82%	120,000	97,806	4	24,451	
Domain Servers (Accounts, DHCP, licenses)	Luke, etc.	82%	22,000	17,931	4	4,483	
Electronic Mail	Goku	82%	8,000	6,520	5	1,304	
Faculty & Staff U: & V: drives	Gohan	0%	15,000	0	4	0	
Print Quota Servers	Cerebrus	100%	3,000	3,000	4	750	
Project Space (T:\projects)	Gohan	50%	20,000	10,000	5	2,000	
Student U: drives & T:\classes	BlueStore	100%	80,000	80,000	4	20,000	
Sun Ray server	Sunfire	97%	40,000		4	0	38,889
Sun Ray Windows servers	Thin1, etc.	97%	108,000		4	0	105,000
Virtual Lab servers	Vlab1, etc.	100%	54,000	54,000	4	13,500	
Web server	Sunbeam	82%	8,000	6,520	5	1,304	
UPS	N/A	82%	50,000	40,752	6	6,792	
Total Student Replacement Cost				367,162			
						Annual Cost for replacement cycle	\$84,921

Student Population

	Average		2005-2006		2004-2005		2003-2004		2002-2003		2001-2002		2000-2001	
graduate students	534	27%	536	28%	563	28%	604	29%	529	27%	505	26%	467	26%
undergraduate students	1,409	73%	1,358	72%	1,459	72%	1,470	71%	1,430	73%	1,411	74%	1,329	74%
total students	1,943	82%	1,894	81%	2,022	82%	2,074	83%	1,959	81%	1,916	82%	1,796	81%
Faculty & Staff	441	18%	448	19%	451	18%	437	17%	448	19%	430	18%	432	19%
total people	2,384		2,342		2,473		2,511		2,407		2,346		2,228	

Backups

The student share of backup costs reflect the actual student portion of all data backed up

Sun Ray services

Sun Rays in computer labs	120	67%	
Sun Rays used by graduate students	55	31%	
Sun Rays used by Faculty & Staff	5	3%	Holliday, Kasdorf, Ritschard, WMEP (1), EBO (1)
Total Sun Rays	180		
Cost of Sun Ray servers	143,889		
cost per Sun Ray	799	1,100	<--- replacement plan cost per Sun Ray

Charges for Technology

College of Engineering

Budget Planning for Fiscal Year 2006

inventory accurate as of spring, 2006

red indicates equipment funded for 2005-2006

blue indicates equipment proposed by ENS & approved by ESTC on 3/23/06

green indicates proposal by ENS and approved by ESTC on 4/13/06

yellow indicates proposal by Civil Engineering & ENS and approved by ESTC on 4/13/06

(renovate GIS lab in summer 2006, but leave computers in the lab until summer of '07)

Actual Lab Equipment	computers		Windows graphics wkst	UNIX compute workstations	thin clients	19" flat panel	21" Trinitron	19" Trinitron	B/W laser printer	Color laser printer	36" color plotter	60" color plotter	Regular Scanners	Large Format Scanners	Photo Scanners	Digital Senders	Projectors	Plasma Displays	Smart Boards	Equip. Value																	
Allison Hall	0	0	0	0	5	5	0	0	5	5	0	0	0	0	0	0	0	0	0	0	6,625																
Anderson Lab	33	63	24	0	24	20	0	0	83	83	3	2	0	1	0	0	3	3	1	1	151,625																
BC Infill (Lounge)	0	0	0	0	4	4	0	4	4	0	0	0	0	0	0	0	0	0	0	0	6,000																
Design Studio	36	48	12	0	1	1	1	1	48	48	0	0	2	2	1	1	1	1	3	2	138,250																
Technical Shop	3	4	1	0	0	0	1	5	3	0	1	0	0	0	0	0	0	0	0	0	8,000																
Electronic Classroom	0	0	0	0	24	0	6	25	24	25	0	0	1	1	0	0	0	0	1	1	43,400																
ERC lab	11	11	0	0	10	10	20	21	0	0	1	0	1	1	0	0	0	0	1	1	43,400																
GIS lab	25	0	0	0	0	30	0	30	25	0	1	0	1	1	1	0	0	0	1	1	58,100																
Internet Café	1	1	0	0	25	25	25	26	0	0	1	0	1	1	0	0	0	0	1	1	47,000																
Loaner pool	6	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	3	0	0	14,400																
MERC	0	5	5	0	0	0	0	5	0	5	2	1	1	1	0	0	0	0	0	1	25,800																
	115	136	42	0	24	0	75	120	71	117	80	48	102	88	11	9	3	4	2	1	1	1	7	5	2	2	4	2	2	2	16	8	1	2	7	2	542,600

2,193

121,531

Cost

life cycle

computer	1,500	4
MS Windows graphics workstation	3,000	4
UNIX compute workstation	6,000	6
thin-client	1,100	4
19" flat panel display	400	5
21" Trinitron monitor	350	5
19" Trinitron monitor	225	5
black & white laser printer	3,100	4
color laser printer	7,200	4
36" color plotter	8,000	5
60" color plotter	14,700	5
regular scanner	150	4
large-format scanner	900	4
photo scanner	125	4
digital sender	1,700	4
projector	2,800	4
plasma display	6,000	5
smart board	1,600	5

eliminate entirely
 eliminate entirely
 (all costs included: dual server (UNIX & Win) support and access licenses)

change from 4 yrs to 5
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reduce from 13,000 to 6,000

-1,500