

Engineering Student Technology Committee

Meeting minutes for April 26, 2000 - Engineering B214 Conference Room - 8:00am

Present: Torrey Burgess (ME), Megan Donovan (ECE), Jennifer Flint (ECE),
Prof. Garcia (CBE), Mike Holland (ME), Prof. Labadie (CE),
Sarah Legoza (CBE), Prof. Nassar (ECE), Lance Parker (CBE),
Jenny Po (intra), Mark Ritschard (ENS), Jessica Rupp (ME),
Dan Stiles (CE), Prof. Willson (ME)

Absent: Michelle Heintz (CE), Bala Natarajan (ECE), Laurent Simon (CBE),
Marcel Zibognon (CE)

- Corrections to previous meeting minutes (4-5-00, 4-12-00, 4-19-00)
none

- Printing quotas

Stiles moved that a print quota system be instituted per the discretion of
ENS. Parker seconded the motion, on the condition that color printing be
offered when the system is instituted. The motion passed 12-2 with Burgess
and Holland dissenting.

- Proposals: Priortization & Approvals

Ritschard distributed a summary of the rankings submitted by the
committee, with the proposals ranked 1-15 by the average rank of the 14
submitted rankings. It was noted that the trim mean and the second trim
mean only slightly changed the rankings.

Discussion then focused around the ranking of the requests. However, the
ranking was not changed before discussion moved to actual funding of requests.

During the discussion of funding, Parker moved and Stiles seconded, that
the Glover Lab project be partially funded at 15K. The motion passed 10-4
with Burgess, Garcia, Legoza, and Po dissenting. Ritschard moved that
FLUENT not be funded, but no one seconded the motion.

The following requests were funded, with ranking noted in parentheses:

(1) Web server	full funding	unanimous
(2) Quota software	full funding	unanimous
(3) Sun Rays	full funding	unanimous
(4) Glover lab	partial - 15K	unanimous
(7) FLUENT software	full funding	unanimous

After some discussion regarding funding of departmental labs, it was noted
that the request form stated that requests with cross-departmental support
were to be given preference but that the committee also had discussed
funding departmental projects that were strategic but carried a larger
cost. There was no consensus on how these two ideas should be balanced.

It was also noted that, at least in the case of ECE and CBE lab requests,
the departmental labs are open to all students when not in use for classes.

Because it is not generally known that these labs are open access,

Ritschard agreed to ask ENS to post a list of general access computing labs both on the doors of all the labs and on the ENS web page.

Garcia then moved and Burgess seconded that the three departmental lab requests be funded at the percentage of the remaining funds (\$47,980) vs. the total of the requests (\$60,575): approximately 80%. The motion passed 11-3 with Labadie, Ritschard, and Stiles dissenting. As a result the following requests were partially funded, with ranking noted in parentheses:

- | | |
|----------------------|----------|
| (5) Glover 146 lab | \$12,673 |
| (6) ECE Lab upgrades | \$8,376 |
| (8) ME lab computers | \$26,931 |

The remaining requests were left ranked as follows, should funding become available (not likely):

- (9) CES Software
- (10) FIDAP Software
- (11) ECE Card Readers
- (12) Wireless Simulation Software
- (13) ECE Semiconductor Analyzer
- (14) NSF Thermo Cost Share
- (15) Digital Imaging

Discussion will continue next week with departmental requests.

Submitted by
Mark Ritschard

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"He is no fool, who gives what he cannot keep, to gain what he cannot lose."
- James Elliott

4/26 meeting

Committee Member:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	Average	Trim Mean	Trim Mean (2)
Web Server	5	4	2	1	2	2	3	7	4	1	10	1	2	2					3.29	2.92	2.70
Printer quota software	1	1	4	13	5	1	5	1	8	3	15	4	4	1					4.71	4.17	3.60
Sun Rays	12	6	1	3	7	11	1	5	3	4	9	5	3	3					5.21	5.00	4.80
Glover Lab upgrades	9	8	3	10	1	15	2	3	2	2	11	2	1	5					5.29	4.83	4.60
Glover 146 Lab Upgrades	15	7	5	7	9	9	6	2	7	8	4	3	5	8					6.79	6.50	6.82
ECE Lab Upgrades	7	2	11	4	15	10	6	4	5	6	6	11	7	9					7.36	7.17	7.10
FLUENT Software	2	12	8	12	6	4	12	15	6	7	7	9	8	7					8.21	8.17	8.20
ME Lab Computers	10	5	6	6	13	8	6	6	1	11	12	13	6	15					8.43	8.50	8.40
CES Software	8	9	7	11	8	6	4	8	11	5	13	8	14	6					8.43	8.33	8.20
FIDAP Software	3	11	14	9	4	3	11	13	13	14	3	15	9	12					9.57	9.75	9.90
ECE Card Readers	4	13	9	2	11	14	14	12	14	9	14	7	11	4					9.86	10.17	10.40
Wireless Simulation Software	6	10	12	8	12	13	13	11	9	10	5	10	10	11					10.00	10.17	10.30
ECE Semiconductor Analyzer	11	3	15	5	14	7	15	9	10	12	8	12	12	14					10.50	10.75	10.90
NSF Thermo Cost Share	14	14	10	14	3	5	9	14	15	15	2	14	13	10					10.86	11.25	11.50
Digital Imaging	13	15	13	15	10	12	10	10	12	13	1	6	15	13					11.29	11.83	12.10

	Rank	Cost	Modified Cost	Running Total	fund?
Web Server	1	\$5,920	\$5,709	\$5,709	yes
Printer quota software	2	\$2,500	\$2,500	\$8,209	yes
Sun Rays	3	\$13,000	\$12,536	\$20,744	yes
Glover Lab upgrades	4	\$30,000	\$27,321	\$48,066	yes
Glover 146 Lab Upgrades	5	\$16,000	\$13,433	\$61,499	yes
ECE Lab Upgrades	6	\$10,575	\$9,817	\$71,316	yes
FLUENT Software	7	\$2,000	\$2,000	\$73,316	yes
ME Lab Computers	8	\$34,000	\$24,245	\$97,561	\$13,085
CES Software	9	\$3,565	\$3,565	\$101,126	no
FIDAP Software	10	\$2,000	\$2,000	\$103,126	no
ECE Card Readers	11	\$3,000	\$3,000	\$106,126	no
Wireless Simulation Software	12	\$2,795	\$2,795	\$108,921	no
ECE Semiconductor Analyzer	13	\$33,000	\$29,000	\$137,921	no
NSF Thermo Cost Share	14	\$20,000	\$19,286	\$157,206	no
Digital Imaging	15	\$9,000	\$8,714	\$165,921	no

Comments

Web Server	Needed upgrade (1), needed but could wait a "year" (1), fund half (1)
Printer quota software	Supports strategy agreed to by committee (1)
Sun Rays	Strategic need for undergrad UNIX machines? Didn't we get new UNIX machines f/ HP? (1), highly applicable to fee (1), fund half (1)
Glover Lab upgrades	fund half (2), No ENS support, upgrades already slated (1), fund 15 computers for \$22,500
Glover 146 Lab Upgrades	fund half (1), fund 5.96K - prorated share of \$40K - Departmental upgrade (1), share funds equal parts to EE ME and CBE since they're all for the similar things (1), how about funding 5 for \$10,000 and allocating remaining CBE funds here as well (1), fund 60% (1)
ECE Lab Upgrades	fund half (1), fund 9.48K - Prorated share of \$40K (1), share funds equal parts to EE ME and CBE since they're all for the similar things (1), sensible upgrades to existing systems (1), fund 60% (1)
FLUENT Software	Multidepartmental, highly leveraged (1), non-critical, probably better funded through other means (1)
ME Lab Computers	fund half (1), fund 5 (1), Fund 12.2K - Prorated share of \$40K - Departmental upgrade (1), share funds equal parts to EE ME and CBE since they're all for the similar things (1), fund 10 for \$20,000 (1), fund 60% (1)
CES Software	Multidepartmental
FIDAP Software	Multidepartmental, highly leveraged (1), non-critical software for ME and ECE students, ME and CE have many other more applicable proposals (1)
ECE Card Readers	Non-strategic maintenance item, best for departmental expenditure (1), departmental infrastructure (1)
Wireless Simulation Software	Best for departmental expenditure (1), telecommunications specific (1)
ECE Semiconductor Analyzer	fund half (2), Capital acquisition, replacement equipment so non-strategic. Provide partial funding of 10K (1), non-critical but sensible technology (1)
NSF Thermo Cost Share	Leveraged cost share, new capabilities so strategic (1), Fund 10K (1), great project but not applicable to this fund? (1)
Digital Imaging	Best for departmental expenditure, mostly affects grad classes (1), fund 5K (1), non-critical new lab, how about funding matlab tool box for 1K (1)

Engineering Student Technology Committee

College of Engineering

Colorado State University

Charges for Technology Proposals, 1999-2000

Proposals against central funding (*listed in the order received*)

- Purchase of FIDAP Computational Software: Meroney, et al
- Wireless Communication Channel Modeling: Nassar
- Card Reader Locks for Rooms B109, C105, C107, and C207: Lile & Aurand
- Computer Upgrades in the Systems and Electronics Laboratories: Lile & Aurand
- H.P. Semiconductor Parameter Analyzer: Lile, et al
- Lab Proctor Support: Lile & Aurand
- College of Engineering Web Server Replacement: Keist, et al
- Modernization of the Glover Computer Lab: Young, et al
- Computer for *Moments Magazine*: Young, et al
- Request for replacement computer: Legoza & Whitt
- Computer Infusion to Instruction Labs: Tong
- Cost Share for NSF Equipment Grant for the Thermofluids Lab: Tong & Grigg
- Thirty additional seats of Cambridge Engineering Selector software for the Lockheed-Martin Engineering Design Studio: Fitzhorn, Siller, & Jayasumana
- 20 seat FLUENT CFD software license for the Lockheed-Martin Engineering Design Studio: Fitzhorn, Meroney, & Smith
- Hardware upgrades for Glover 146c Undergraduate Computing Laboratory: Gonzales & Murphy
- Digital Image Processing Systems: Azimi, Jayasumana, & James
- Dynamic and Steady State Simulation using HYSIS: Karim & Murphy
- Print Quota Software: Ritschard, Mapel, & Van Noy
- Sun Ray facility: Ritschard, et al

Proposals against departmental funding (*listed in the order received*)

Chemical and Bioresource Engineering

- Simulation and Design of Biological Processes using Superpro Designer: Karim & Murphy
- Omnistar 1 year satellite subscription for GPS differential correction: Garcia & Ayers
- Hardware Upgrades for Dept. Chem. & Bio. Eng. Undergraduate Courses: Gonzales & Murphy
- Card Reader for Undergraduate Computing Laboratory Glover 146c: Gonzales & Murphy
- Purchase of Applied Flow Technology Fathom 4.0 software program: Murphy & Gonzales

Civil Engineering

- Technical Support for the Civil Engineering Computing Labs: Labadie
- Magnetic Card Readers for Student Entry to CE Labs: Labadie
- ESRI Site License for Geographic Information System Software: Labadie
- Increased Number of NT Workstations for the GIS Engineering Design Lab: Labadie

Electrical and Computer Engineering

- Laboratory Maintenance: Lile & Aurand

- Software Licenses: Lile & Aurand

Mechanical Engineering

- CNC Milling Machine: Tong & Smith
- Wireless Radio Set: Tong & Smith
- Upgrading the Cambridge Materials Selector (CMS) software to Cambridge Engineering Selector (CES) software: Sampath, et al
- Repair and Upgrade of Refrigeration Experiment in Thermal Fluids Laboratory: Loehrke & Tong
- Liquid Nitrogen Dewar for Thermal Fluids Laboratory: Loehrke & Tong
- Adept Robot Repair: Alciatore, Troxell, & Burgess
- Welder: Smith & Tong

Proposals summary, 1999-2000

Fund	Title	Supporters	Cost	Fund Balance	Comments
<i>Central</i>				\$86,400	
<i>Central</i>	FIDAP Software	5 CE & 3 ME profs	\$2,000		
<i>Central</i>	Wireless simulation Software	Prof. Nassar (ECE)	\$2,795		
<i>Central</i>	ECE card readers	1 ECE prof & 1 ECE staff	\$3,000		
<i>Central</i>	ECE lab upgrades	1 ECE prof & 1 ECE staff	\$10,575		
<i>Central</i>	ECE Semiconductor Analyzer	2 ECE profs & 1 ECE staff	\$33,000		
<i>Central</i>	ECE lab proctor	1 ECE prof & 1 ECE staff	\$6,000		<i>Moved to ECE by ECE</i>
<i>Central</i>	Web server	5 ENS staff & 4 students	\$5,920		
<i>Central</i>	Glover lab	39 students	\$30,000		
<i>Central</i>	Moments Magazine	14 students	\$1,500		<i>Denied</i>
<i>Central</i>	AERC computer replacement	2 students	\$1,500		<i>Moved to CBE</i>
<i>Central</i>	ME lab computers	1 ME prof	\$34,000		
<i>Central</i>	NFS Thermo Cost Share	1 ME prof & 1 CE prof	\$20,000		
<i>Central</i>	CES software	1 ME prof, 1 CE prof, 1 ECE prof	\$3,565		
<i>Central</i>	FLUENT software	1 ME prof & 2 CE profs, 1 ECE prof	\$2,000		
<i>Central</i>	Glover 146 Lab upgrades	1 CBE prof & 1 CBE staff	\$16,000		
<i>Central</i>	Digital Imaging	3 ECE profs	\$9,000		
<i>Central</i>	HYSIS	2 CBE profs	\$1,000		<i>Moved to CBE</i>

<i>Central</i>	print quota software	3 ENS staff	\$2,500	
<i>Central</i>	Sun Rays	2 students & 3 ENS staff	\$13,000	
<i>Central</i>	Requested Total		\$187,355	\$100,955
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<i>CBE</i>				\$12,500
<i>CBE</i>	SuperPro software	2 CBE profs	\$1,024.50	
<i>CBE</i>	GPS signal	2 CBE profs	\$800	
<i>CBE</i>	Lab upgrades	1 CBE prof & 1 CBE staff	\$5,000	
<i>from Central</i>	AERC computer replacement	2 students	\$1,500	
<i>from Central</i>	HYSIS	2 CBE profs	\$1,000	
<i>CBE</i>	Glover lab card reader	1 CBE prof & 1 CBE staff	\$800	
<i>CBE</i>	Fathom Software	1 CBE prof & 1 CBE staff	\$2,360	
<i>CBE</i>	Requested Total		\$12,484.50	\$15.50
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<i>CE</i>				\$22,800
<i>CE</i>	Tech Support	Prof. Labadie	\$12,480	
<i>CE</i>	Lab Entry Card Readers	Prof. Labadie	\$2,240	
<i>CE</i>	ESRI software	Prof. Labadie	\$1,650	
<i>CE</i>	GIS workstations	Prof. Labadie	\$4,000	
<i>CE</i>	Requested Total		\$20,370	\$2,430
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<i>ECE</i>				\$19,800
<i>ECE</i>	Lab maintenance	1 ECE prof & 1 ECE staff	\$6,440	
<i>ECE</i>	Software Licenses	1 ECE prof & 1 ECE staff	\$7,360	
<i>from Central</i>	ECE lab proctor	1 ECE prof & 1 ECE staff	\$6,000	
<i>ECE</i>	Requested Total		\$19,800	- 0 -
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<i>ME</i>				\$25,500
<i>ME</i>	CNC Milling Machine	2 ME profs	\$12,644	
<i>ME</i>	Wireless Radio Set	2 ME profs	\$1,723	

ME	CMS software	3 ME profs & 1 ME staff	\$6,060	
ME	Refrigeration upgrade	2 ME profs	\$692	
ME	Dewar	2 ME profs	\$1,216	
ME	Robot Repair	2 ME profs & 1 student	\$2,198	
ME	Welder	2 ME profs	\$3,468 \$967	<i>Approved for partial funding only</i>
ME		Requested Total	\$25,500	- 0 -