

Fall 1994

Proposal Presentation Agenda

Title	Department	Name	Time
Engineering Counselling Library	1st. Yr. Engineering	Dr. Marna Zinatelli	7:05
Computer Upgrades to ChE 4th Yr. Study Room	Chemical Engineering	David Bridgeman	7:10
Portable Multi-Purpose Building Science Test Facility	Civil Engineering	Dr. E.F.P. Burnett	7:15
Multimedia upgrading of CIV E 353 (Geotechnical Engineering 2)	Civil Engineering	K. Klein J.C. Santamarina	7:20
- Handheld Dissolved Oxygen Meters - Pipettors - YSI 5905 BOD Probe	Civil Engineering	Bruce Stickney	7:25
- Upgrade to E & CE Public Access Watstar room - Expansion of Sunee Facility	Electrical & Computer	Roger Sanderson	7:30
BREAK	BREAK	BREAK	7:40
Curve Tracer for Electronics Lab	Electrical & Computer	Paul Hayes	7:55
SAE Video Set on "Basic Noise Control"	Mechanical Engineering	F. Ismail	8:00
Midnight Sun Solar Car Project		Dr. G. Savage Dave Walsh	8:05
Replacement Flow meters for Ch.E. Distillation Column	Chemical Engineering	W.A. Anderson	8:10
Waterluge Concrete Toboggan Team "A" Society		Stefano Normani Caroline Brabrook	8:15
- Watstar Rm Upgrade - Laboratory Stations - Robotics Computer Controllers - Cam Corder	Mechanical Engineering	M. Kaptein	8:20
DADS Engineering Software	Systems Design Engineering	John J. McPhee	8:25
Laboratory Upgrades; Oscilloscopes	Systems Design Engineering	Guenther Metzger	8:30

WEEF FUNDING PROPOSAL FORM

Submitter Information

Name: Dr. Marna Zinatelli
 Phone Number: x2849
 E-mail Address: _____
 Position (ie. student, professor): Engineering Counselling Psychologist

Proposal Information

Title: Engineering Counselling Library
 Date: October 6, 1994
 Type (AE&R or non-AE&R): non-AE&R

Description (use the back of this page or additional paper if more space is required):

Reading is often an important aspect of personal counselling.
Unfortunately, certain key books are often unavailable or too expensive
for students to purchase. A small collection of books stored in
engineering counselling and borrowed by clients greatly facilitates
the progress of engineering students in need of personal counselling.
This library was made possible by funding from WEEF and I am requesting
further assistance in order to purchase additional books.

Estimated Cost of Proposal (please itemize where possible):

Please see attached.

Would partial funding to the cost estimate provided above be acceptable? (Y or N) Y

Book List

<u>Title</u>	<u>Price</u>
The Perfectionist Predicament	\$ 8.00
Are You the One for Me	7.00
The Three Boxes of Life	20.00
10 Days to Self-esteem	20.00
Revolution from Within	25.00
Allies in Healing	20.00
Essays and Reports	5.00
Positive Solitude	14.00
Anger-The Misunderstood Emotion	15.00
Children of Alcoholics	17.00
Diagnostic & Statistical Manual of Mental Disorders IV	30.00
Test Anxiety	10.00
Getting the Love You Want	20.00
Workbooks on Anorexia Nervosa	30.00
I Can't Stop Crying: When Someone You Love Dies	10.00
The Dance of Anger	10.00
Family Ties That Bind	10.00
Intimate Connections	7.00
Transforming Body Image	16.00
A Major Clinical Handbook and Treatment Manual for Assessing and Treating Clients with Post Traumatic Stress Disorder	30.00
Total	\$324.00

Please list the potential beneficiaries of this proposal (cite courses if applicable, access and availability of the proposed purchase, etc.):

All students, staff and faculty in the Faculty of Engineering who
are interested in self-help and/or personal counselling.

Thank you for your proposal. Please submit the **original** copy to the Endowment Director.

Submitter Signature: [Signature]

Date: October 13/94

Department Approval

Every proposal must be reviewed by the appropriate Department Head. This is done to insure that the departments are well informed, and have the opportunity to voice their opinion about proposals being presented to the WEEF Funding Council. If you are unsure who the appropriate Department Head is for your proposal, please contact the Endowment Director, Christopher Nekkers.

The following section is to be completed by the appropriate Department Head.

Name: Dr. G.E. Schneider

Position: Assoc. Dean of Engrg., U/G Studies

Phone Extension: 4792

I DO / DO NOT (circle one) approve of the above proposal.

If this proposal has not been approved, please indicate the reasons below:

Department Head Signature: [Signature]

Date: Oct 13/94

WEEF FUNDING PROPOSAL FORM

Submitter Information

Name: David Bridgman
 Phone Number: 805 674 4000
 E-mail Address: dbbridgman@chem.ucsb.edu
 Position (ie. student, professor): Professor

Proposal Information

Title: E1-2527 CHE 4th yr. Run Computer Upgrade
 Date: 30 September / 91
 Type (AE&R or non-AE&R): AE&R

Description (use the back of this page or additional paper if more space is required):

Upgrade 386 computer PCs to 486 capable capability
 Currently, 10 of the PCs are 386 33MHz. Due
 to the slow rate in order to run much of the
 software which is required for our courses / design projects / research
 projects at a suitable speed, higher processing speed is required.
 The most a 386 33MHz delivers due to the capability of 486's
 speed capability, demand is very high in the study program.

Estimated Cost of Proposal (please itemize where possible):

Cost per computer	\$ 130 for main motherboard
	\$ 50.7 for RAM for 486 CPU
	\$ 497.
Prices from Intel Catalogue as of late August. Prices	
will decrease 10-15% before December (estimated unit cost	
there is \$423 (6 is diff).	

Would partial funding to the cost estimate provided above be acceptable? (Y or N) Y, in increments
 of \$497.00

Please list the potential beneficiaries of this proposal (cite courses if applicable, access and availability of the proposed purchase, etc.):

All 4th yr chemical students; indirectly chem eng. & mech. students not in fourth year (eg. work) that benefit from applications developed on the computers during design/research work carried out by 4th yr students

Thank you for your proposal. Please submit the **original** copy to the Endowment Director.

Submitter Signature:

A. Bridge
Date: 11/10/74

Department Approval

Every proposal must be reviewed by the appropriate Department Head. This is done to insure that the departments are well informed, and have the opportunity to voice their opinion about proposals being presented to the WEEF Funding Council. If you are unsure who the appropriate Department Head is for your proposal, please contact the Endowment Director, Christopher Nekkers.

The following section is to be completed by the appropriate Department Head.

Name:

L. Rempel

Position:

Chair

Phone Extension:

2295

I **DO** / **DO NOT** (circle one) approve of the above proposal.

If this proposal has not been approved, please indicate the reasons below:

Department Head Signature:

L. Rempel

Date:

Oct 13, 1974

DEPARTMENT OF CIVIL ENGINEERING

WEEF FUNDING PROPOSALS

FALL 1994

WEEF FUNDING PROPOSALS FALL 1994
DEPARTMENT OF CIVIL ENGINEERING
SUMMARY (Usage/Cost)

Area	Equipment	Amount	Course(s)	Students P.A.
Building Science Engineering	Portable Multi-Purpose Building Science Test Facility	\$4,800	Civ.E. 407 (Building Science Technology) Civ.E. 300/400 (Project Courses)	30-40
Geotechnical Engineering	Multimedia Upgrading of Civ.E. 353 (Geotechnical Engineering 2)	\$1,470 Cdn (\$1,050 US)	Civ.E. 353 (Geotechnical Engineering 2)	200
Environmental Engineering	Handheld Dissolved Oxygen Meters	2 @ \$1,050 = \$2,100	Civ.E. 375, Civ.E. 300/400	240
	Pipettors	2 @ \$412 = \$824	Env.E. 330 (Lab & Instrumentation Methods), Civ.E. 375 (Water Quality Engineering), Civ.E. 471 (Waste Water Treatment), Civ.E. 400 (Project 2)	275-300
	YSI 5905 BOD Probe	\$700	Civ.E. 375, Civ.E. 300/400	240
TOTAL:		\$9,894		

(In order of priority)

Notes: Civ.E. 472 attracts students from Civil, Chemical and Systems Design Engineering; Env.E. 330 will attract students from Civil, Chemical, Geological and Systems Design.
Civ.E. 407 attracts students from Civil, Mechanical, Systems Design Engineering and Architecture.

The Department of Civil Engineering is willing to contribute partial support depending on the WEEF contribution.

WEEF Proposal Form
Fall 1994

Submitter Information

Submitted by: Dr. E.F.P. Burnett

Phone Number: 2174

Position: Professor, Civil Engineering

Date of Submission: 94.10.06

Proposal Information

Title: Portable Multi-Purpose Test Facility

Description of Proposal: To build a portable test facility to establish one or more of the following: air tightness (air leakage) characteristics, rain/water tightness, and/or structural response of building assemblies or sub-assemblies such as cladding, windows, facades, veneers or screens, or complete wall or roof assemblies. Portability is an important feature to enable us to demonstrate or conduct testing of roofs (uplift, air and rain), walls, doors (industrial) and even dwellings or portions of buildings.

Benefits of the Proposal: At least two faculty members, both involved in Building Technology, will make use of this facility. Professor Burnett will utilize it for Civ.E. 407 (Building Science Technology) and also the related Graduate course (Civ.E. 707). Professor R. Schuster, who has courses in Civil Engineering and Architecture, will use it for demonstration as well as testing purposes (Arch 276, 362 and Civ.E. 703). Enrolment in Civ.E. 407 (Winter Term) is usually between 20 and 30 students drawn from Civil Engineering plus some Mechanical Engineering and Architecture students who choose to do this course in 4B.

Air and moisture are two of the most significant loadings that a building has to accommodate. Prior to 4B, this reality is not acknowledged. There is a need for a demonstration tool and a hands-on test facility. This versatile equipment could also be used by other faculty members and/or students for project courses (Civ.E. 300 and Civ.E. 400).

All components are readily available and we will design and assemble the facility on campus.

Cost Breakdown of Proposal:

Blower Fan and Motor	\$ 350
Analog Meters	\$ 600
Controls	\$ 300
Water Flow and Pressure Gauges	\$ 350
Sparge Rack Distribution System for Water including Water Pump, Nozzles, etc.	\$ 650
Air Flow Rate and Pressure Meters (Low and High Pressure)	\$ 750
Plumbing, Valves, etc.	\$ 300
Storage Unit	\$ 200
Labour (development, fabricate, calibrate, etc.)	<u>\$1300</u>
Total:	<u>\$4800</u>

Implementation Schedule for Project:

Immediately.

Would partial funding to the cost estimate provided above be acceptable?

YES

Submitter Signature: _____

E. Burnett

Date: October 13, 1994

Department Approval

Every proposal must be reviewed by the appropriate Department Head. This is done to insure that the departments are well informed, and have the opportunity to voice their opinion about proposals being presented to the WEEF Funding Council. If you are unsure who the appropriate Department Head is for your proposal, please contact the Endowment Director, Christopher Nekkers.

The following section is to be completed by the appropriate Department Head.

Name: Dr. B.G. Hutchinson
Position: Chair, Civil Engineering
Phone: Ext. 2160

Proposal approved:  Dated: 9.4.14
B.G. Hutchinson

If this proposal has not been approved, please indicate the reasons below:

WEEF FUNDING PROPOSAL FORM

Submitter Information

Name: CIV E 353 Department of Civil Engineering - K. Klein and J.C. Santamarina
 Phone Number: Ext. 2098
 E-mail Address: carlos@civoffice
 Position (i.e. student, professor): graduate student (on multimedia teaching) and professor

Proposal Information

Title: Multimedia Upgrading of CIV E 353: Geotechnical Software
 Date: October 5, 1994
 Type (AE&R or non-AE&R): _____

Description (use the back of this page or additional paper if more space is required):
Recently, there has been a growing concern regarding the methods used to present course information. This concern is the result of: shrinking resources; increasing class sizes (20% in the next ten years); the development of new technologies that students should be introduced to; and the fact that new generations have different learning patterns (i.e. learning patterns are moving away from the chalkboard towards visual media).

The department of Civil Engineering has allocated resources to the exploration of multimedia techniques in teaching (funding to enable students to undertake developmental tasks and release time for professors). Our goal is to make changes to CIV E 353 such that the course includes: animation of simulated physical phenomena, interactive MathCad tutorials, movies of case histories, and a new laboratory on computer software for geotechnical analyses.

We are requesting WEEF support to purchase the software to be used in this laboratory. While the selected software is not sophisticated, it is comprehensive enough to expose undergraduate students to a variety of computer-based designs of geotechnical systems.

Estimated Cost of Proposal (please itemize where possible):

software package	\$650 (US)
licensing for two additional computers	\$400 (US)
total cost	\$1050 (US)

Would partial funding to the cost estimate provided above be acceptable? (Y or N) Y

Please list the potential beneficiaries of this proposal (cite courses if applicable, access and availability of the proposed purchase, etc.):

The primary beneficiaries of this proposal would be all students taking CIV E 353, as a new laboratory would be based on this software. Students in CIV E 354 and CIV E 454 would benefit as well, since the program incorporates many concepts covered in these courses. Also, this software package could be used by students for their project courses (CIV E 300 and CIV E 400).

Thank you for your proposal. Please submit the **original** copy to the Endowment Director.

Submitter Signature: *Katherine Klein*
Date: Oct. 5, 1994

Department Approval

Every proposal must be reviewed by the appropriate Department Head. This is done to insure that the departments are well informed, and have the opportunity to voice their opinion about proposals being presented to the WEEF Funding Council. If you are unsure who the appropriate Department Head is for your proposal, please contact the Endowment Director, Christopher Nekkers

The following section is to be completed by the appropriate Department Head.

Name: B G HUTCHINSON
Position: CHIEF, CIVIL ENGINEERING
Phone Extension: 2666

I ☒ DO / ☐ DO NOT (circle one) approve of the above proposal.

If this proposal has not been approved, please indicate the reasons below:

Department Head Signature: *B. Hutchinson*
Date: 24.10.14

WEEF Proposal Form
Fall 1994

Submitter Information

Submitted by: Bruce Stickney

Phone Number: 2908

Position: Environmental Engineering
Lab, Civil Engineering

Date of Submission: 94.10.06

Proposal Information

Title: Two Handheld Dissolved Oxygen Meters

Description of Proposal: YSI 55 Handheld Dissolved Oxygen System. The system consists of a portable meter and probe for field measurement of dissolved oxygen.

Benefits of the Proposal: The meter would be used for a Civ.E. 375 (Water Quality Engineering) Water Quality Laboratory. We currently have three dissolved oxygen meters and these are shared by approximately 120 students each term. The addition of one or two meters would increase accessibility.

Cost Breakdown of Proposal: Two - YSI 55 Handheld Dissolved Oxygen System. Cost: \$1,050 each (Total: \$2,100).

Implementation Schedule for Project: The meters would be used in the Winter and Spring Terms in the Civ.E. 375 Water Quality Labs.

Would partial funding to the cost estimate provided above be acceptable?

YES

Submitter Signature:  October 13, 1994

Department Approval

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The following section is to be completed by the appropriate Department Head.

Name: Dr. B.G. Hutchinson
Position: Chair, Civil Engineering
Phone: Ext. 2160

Proposal approved:  Dated: 27 Nov. 12
B.G. Hutchinson

If this proposal has not been approved, please indicate the reasons below:

WEEF Proposal Form
Fall 1994

Submitter Information**Submitted by:** Bruce Stickney**Phone Number:** 2908**Position:** Environmental Engineering
Lab, Civil Engineering**Date of Submission:** 94.10.06**Proposal Information****Title:** Two Pipettors

Description of Proposal: These variable volume (100-1000 ul.) pipets would be used almost exclusively for sample and reagent preparation in undergraduate laboratories and in graduate research by technical staff. They afford the accurate measurement of small volumes of less than one millilitre and reduces wastage. Currently, we do not have this level of measuring capability.

Benefits of the Proposal: The preparation and dilution of samples in Ion Chromatography and T.O.C. used in Civ.E. 375 (Water Quality Engineering) and Civ.E. 472 (Waste Water Treatment) alone is time-consuming and could be reduced significantly with the acquisition of the pipettors.

Cost Breakdown of Proposal: Two - Eppendorf Model 22 44 020-9. Cost: \$412 each (Total: \$824).

Implementation Schedule for Project: The pipettors would be used immediately.

Would partial funding to the cost estimate provided above be acceptable?

YES

Submitter Signature:  Date: October 13, 1994

Department Approval

Every proposal must be reviewed by the appropriate Department Head. This is done to insure that the departments are well informed, and have the opportunity to voice their opinion about proposals being presented to the WEEF Funding Council. If you are unsure who the appropriate Department Head is for your proposal, please contact the Endowment Director, Christopher Nekkers.

The following section is to be completed by the appropriate Department Head.

Name: Dr. B.G. Hutchinson
Position: Chair, Civil Engineering
Phone: Ext. 2160

Proposal approved: B.G. Hutchinson Dated: 24 12 14

If this proposal has not been approved, please indicate the reasons below:

WEEF Proposal Form
Fall 1994

Submitter Information

Submitted by: Bruce Stickney

Phone Number: 2908

Position: Environmental Engineering
Lab, Civil Engineering

Date of Submission: 94.10.06

Proposal Information

Title: YSI 5905 BOD Probe

Description of Proposal: YSI 5905 BOD Probe - used for measuring dissolved oxygen in a BOD bottle.

Benefits of the Proposal: This probe would be used in the Civ.E. 375 (Water Quality Engineering) Water Quality Laboratory. We currently have three BOD probes that are shared by approximately 120 students each term. The addition of one probe would allow the use of an additional meter for BOD measurement and would increase accessibility.

Cost Breakdown of Proposal: YSI 5905 BOD Probe. Cost: \$700.

Implementation Schedule for Project: The unit would be used immediately.

Would partial funding to the cost estimate provided above be acceptable?

YES

Submitter Signature:  October 13, 1994

Department Approval

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The following section is to be completed by the appropriate Department Head.

Name: Dr. B.G. Hutchinson
Position: Chair, Civil Engineering
Phone: Ext. 2160

Proposal approved:  Dated: 2-1-14
B.G. Hutchinson

If this proposal has not been approved, please indicate the reasons below:

WEEF FUNDING PROPOSAL FORM

Submitter Information

Name: Roger Sanderson
Phone Number: Ext. 6184
E-mail Address: RSANDERS@EESTAFF
Position (ie. student, professor): Staff

Proposal Information

Title: Upgrade E&CE Public Access Watstar Room
Date: October 7, 1994
Type (AE&R or non-AE&R): _____

Description (use the back of this page or additional paper if more space is required):

- A. Purchase and install three 486 colour Windows-capable Watstar stations for Room E2-2362. The three stations will replace the last 3 mono-chrome 386s in this room. The displaced 386 systems will be used to replace 8088 and 80286 systems in Rooms E2-2356 and E2-3342. Room E2-2362 is a 24 hour access, Watstar room administered by the E&CE department.

Estimated Cost of Proposal (please itemize where possible):

- B. Each station would cost \$2200.00. One, two, or three systems would be accepted for a cost of \$2200., \$4400., or \$6600., respectively.

Would partial funding to the cost estimate provided above be acceptable? (Y or N) Yes

Please list the potential beneficiaries of this proposal (cite courses if applicable, access and availability of the proposed purchase, etc.):

- C. These computers will bring all of the computers in E2-2362 up to
Windows capability. The room is used primarily by all the E&CE
students who need computer access, but since it is open 24 hours
it is also available to Engineering students in other Departments.

Thank you for your proposal. Please submit the **original** copy to the Endowment Director.

Submitter Signature: Roger Anderson
Date: Oct 14, 1994

Department Approval

Every proposal must be reviewed by the appropriate Department Head. This is done to insure that the departments are well informed, and have the opportunity to voice their opinion about proposals being presented to the WEEF Funding Council. If you are unsure who the appropriate Department Head is for your proposal, please contact the Endowment Director, Christopher Nekkers.

The following section is to be completed by the appropriate Department Head.

Name: S. K. Chandhuri
Position: Chair, E&CE
Phone Extension: 4016

I ☒ DO ☐ DO NOT (circle one) Very strongly approve of the above proposal.

If this proposal has not been approved, please indicate the reasons below:

Department Head Signature: S. K. Chandhuri
Date: Oct. 14, 1994

WEEF FUNDING PROPOSAL FORM

Submitter Information

Name: B. Roehl
Phone Number: Ext. 2607
E-mail Address: BROEHL@eestaff
Position (ie. student, professor): staff

Proposal Information

Title: Expansion of Sunee Facility
Date: October 7, 1994
Type (AE&R or non-AE&R):

Description (use the back of this page or additional paper if more space is required):
Purchase two SUN SPARK station5 workstations to expand the
sunee lab facility. An increasing number of undergraduate
courses require UNIX based software. This expansion is
necessary to accommodate these students.

Estimated Cost of Proposal (please itemize where possible):

<u>Two SUN SPARK station5 workstations</u>	<u>\$13,471.00</u>
<u></u>	<u></u>
<u></u>	<u></u>
<u></u>	<u></u>
<u></u>	<u></u>

Would partial funding to the cost estimate provided above be acceptable? (Y or N) Yes

Please list the potential beneficiaries of this proposal (cite courses if applicable, access and availability of the proposed purchase, etc.):

These workstations would be used in the following electrical and/or computer engineering courses:

Fall: ECE 427, ECE 450

Winter: ECE 427, ECE 354

Spring: ECE 455, ECE 450

Availability: All 4th year E&CE students get accounts on the system, as well as all people taking the courses using the system. 24 hour access (combination lock on door).

Thank you for your proposal. Please submit the original copy to the Endowment Director.

Submitter Signature: 

Date: Oct 14, 1994

Department Approval

Every proposal must be reviewed by the appropriate Department Head. This is done to insure that the departments are well informed, and have the opportunity to voice their opinion about proposals being presented to the WEEF Funding Council. If you are unsure who the appropriate Department Head is for your proposal, please contact the Endowment Director, Christopher Nekkers.

The following section is to be completed by the appropriate Department Head.

Name: S.K. Chaudhuri

Position: Chair, E&CE Dept

Phone Extension: 4016

☒ **I DO** / **DO NOT** (circle one) approve of the above proposal.

If this proposal has not been approved, please indicate the reasons below:

Department Head Signature: 

Date: Oct. 14, 1994

WEEF FUNDING PROPOSAL FORM

Submitter Information

Name: Paul Hayes
Phone Number: Ext. 3969
E-mail Address: PHayes@eestaff
Position (ie. student, professor): Technical Staff

Proposal Information

Title: Curve Tracer for Electronics Lab.
Date: October 7, 1994
Type (AE&R or non-AE&R): _____

Description (use the back of this page or additional paper if more space is required):

This curve tracer would allow students to obtain characteristic curves of semiconductor devices used in the laboratory. It will also provide hard copies of these. The two 20 year old curve tracers that are currently in use no longer provide adequate displays and do not have hard copy facilities.

Estimated Cost of Proposal (please itemize where possible):

TEKTRONIX MOD 571 CURVE TRACER	\$5,323.00

Would partial funding to the cost estimate provided above be acceptable? (Y or N) NO

Please list the potential beneficiaries of this proposal (cite courses if applicable, access and availability of the proposed purchase, etc.):

This curve tracer would be used by students in the following
courses: E&CE 231 (2B), E&CE 332 (3B), E&CE 438 and E&CE 439.
All electrical and most computer engineering students take
E&CE 231 and E&CE 332. E&CE 438 and E&CE 439 are optional
courses for fourth year students.

Thank you for your proposal. Please submit the **original** copy to the Endowment Director.

Submitter Signature: Mr Paul Hays
Date: Oct 14, 1994

Department Approval

Every proposal must be reviewed by the appropriate Department Head. This is done to insure that the departments are well informed, and have the opportunity to voice their opinion about proposals being presented to the WEEF Funding Council. If you are unsure who the appropriate Department Head is for your proposal, please contact the Endowment Director, Christopher Nekkers.

The following section is to be completed by the appropriate Department Head.

Name: S.K. Chandhuri
Position: Chair, E&CE
Phone Extension: 4016

☒ **DO** ☐ **NOT** (circle one) approve of the above proposal.

If this proposal has not been approved, please indicate the reasons below:

Department Head Signature: S.K. Chandhuri
Date: Oct. 14, 1994

WEFF FUNDING PROPOSAL FORM

Submitter Information

Name: Prof. F. Ismail
 Phone Number: 3445
 E-mail Address: _____
 Position (ie. student, professor): Professor

Proposal Information

Title: Professor
 Date: Oct 14/94
 Type (AE&R or non-AE&R): _____

Description (use the back of this page or additional paper if more space is required):
SAE Professional Development Video set on "Basic Noise Control". The set
is comprised of 3 modules: a) Introduction to Sound, b) Basic Control
Concepts, and c) Vibration and Vehicle Noise Control. This set will
enhance the course material of ME 568, "Industrial Noise Analysis and
Control." The set is put together by Mr. Robert F. Hand who has 30
years of experience in the noise field. It uses coordinated graphics
and demonstrations to help comprehend the different concepts of
sound generation, propagation, absorption and transmission.

Estimated Cost of Proposal (please itemize where possible):
Single-User Video package, \$ 755. US + shipping and handling.

Would partial funding to the cost estimate provided above be acceptable? (Y or N) N

Please list the potential beneficiaries of this proposal (cite courses if applicable, access and availability of the proposed purchase, etc.):

Students in ME 568, "Industrial Noise Analysis and Control". This course is offered every winter with an average enrolment of 40 undergraduates mostly from Mechanical Engineering, and fewer students from civil and system design. It is the only course offered in Engineering on Industrial Noise. With the introduction of "Environmental Engineering" option, it is expected that more students will be interested to learn about how to combat noise pollution in the work place.

Thank you for your proposal. Please submit the **original** copy to the Endowment Director.

Submitter Signature: E. Ismail
Date: Oct 14, 1994

Department Approval

Every proposal must be reviewed by the appropriate Department Head. This is done to insure that the departments are well informed, and have the opportunity to voice their opinion about proposals being presented to the WEEF Funding Council. If you are unsure who the appropriate Department Head is for your proposal, please contact the Endowment Director, Christopher Nekkers.

The following section is to be completed by the appropriate Department Head.

Name: _____
Position: _____
Phone Extension: _____

I DO / DO NOT (circle one) approve of the above proposal.

If this proposal has not been approved, please indicate the reasons below:

Department Head Signature: Ken Smith
Date: Oct 14/94

WEEF Proposal Form

Fall 1994

27

Proposal Title: Midnight Sun Solar Car Project

Submitted by: Dr. G. Savage, Dave Walsh,

Phone Number: x2234

Position (Student, Professor, Organization, etc.): Project

Date of Submission: SE. 94

Description of Proposal:

The purpose of the Midnight Sun Project is to enable undergraduates, graduates, staff, and faculty to work on a large scale project. From the criteria and constraints established, the team must then develop designs that could satisfy these limitations. Ultimately, the proposed designs must be critiqued and a final optimal design chosen. SUNRAYCE allows for all these stages to be explored. The final design will then be compared to other universitys' in the SUNRAYCE competition to determin the best overall design and team.

The Midnight Sun Project is an ongoing project dedicated to educating the public on the environment, alternative energy sources, mathematics, science, and engineering. It is through this education and through SUNRAYCE, that the University of Waterloo will ultimately succeed in solar car design.

Benefits of the Proposal (including number and department(s) of students affected):

In order to promote both SUNRAYCE and the Midnight Sun, the project team has performed lectures, talks, and demonstrations to the community and local educational system. As well, Midnight Sun has been in the media, local, national, and international, in both print and electronic form. Promoting education, engineering, and the environment is a strong concern for the Midnight Sun Project.

Within the project team, members can receive academic credit for conducting research, design, and construction of the vehicle. These project courses are Mech 482, Elec 499, SyDe 362, 461, & 462, as well as independent projects through General Engineering. To this date, there have been approximately 35 project courses spanning Engineering and Physics, as well as over 100 students involved at differnet levels of the project.

The benefit to engineering of a project this size is the fact that it is multi- disciplinary. Engineers from all areas have been involved in the project. In fact, the project should be called a University of Waterloo Project based in Engineering. With this scope, engineering begins to integrate into society.

Cost Breakdown of Proposal (including partial funding options if desired):

The Midnight Sun Project Team is requesting \$5,000 from WEEF. With this cash, the project can purchase the much needed equipment to continue. The following is a detailed breakdown of the possible uses of a \$5,000 donation.

Motor Controller for Project	\$5000
Motor for Project	\$5000
Partial Funding of Solar Array	\$5000

The Midnight Sun Project would accept partial funding.

Implementation Schedule for Project:

The Midnight Sun Project is an on-going project that will be building a new solar car over the next year and testing in the eight months following construction. The workshops are a continuing aspect to the project enabling students to work in the field of their interest.

Oct 13 1994

WEEF Funding Proposal Form

SUBMITTER INFORMATION

Name: W.A. (Bill) Anderson
Phone Number: 5011
E-mail Address: wanderson@chemical
Position (ie. student, professor): Professor, Chemical Engineering

PROPOSAL INFORMATION

Title: Replacement flowmeters for Chemical Engineering Distillation Column
Date: Oct. 13, 1994
Type (AE&R or non-AE&R): AE & R

Description (use the back of this page or additional paper if more space is required):

Based on the recommendations of previous 4th year classes, we would like to replace the five existing rotameter flowmeters with digital models. The existing flowmeters are somewhat oversized for the current conditions, resulting in poor accuracy in the flowmeter readings. Digital flowmeters will provide increased accuracy and improved experimental results and calculations. In addition, the digital flowmeters will allow for future improvements in the form of computer data-logging and automated process control systems.

Estimated Cost of Proposal (please itemize where possible):

Prices are based on items distributed by Miniflow Systems Inc., Watertown MA.
Each measurement device consists of a flowmeter and flow converter.

Digital flowmeters: 5 @ \$1167 = \$5835
Flow converters: 5 @ \$ 501 = \$2505

Total: \$8340 including GST

Would partial funding to the cost estimate provided above be acceptable? (Y or N): YES

Please list the potential beneficiaries of this proposal (cite courses if applicable, who has access to the equipment, etc.):

All Chemical Engineering undergraduate students are required to participate in labs involving use of the requested items. Specifically, ChE 101 and ChE 040 labs make use of the distillation column experiment, involving about 200 students per year. The requested equipment would be directly used by the students during their lab experiments.

Thank you for your proposal. Please submit the original to the Endowment Director.

Submitter Signature: [Signature]
Date: Oct 13 1994

Department Approval

Every proposal must be reviewed by the appropriate Department Head. This is done to insure that the departments are well informed, and have the opportunity to voice their opinion about proposals being presented to the WEEF Funding Council. If you are unsure about who the appropriate Department Head for your proposal, please contact the Endowment Director, Christopher Nekkers.

The following section is to be completed by the appropriate Department Head:

Name: G. L. Rempel
Position: Chairman
Phone Extension: 2295

I DO / ~~DO NOT~~ (circle one) approve of the above proposal.

If this proposal has not been approved, please indicate the reasons below:

Department Head Signature: [Signature]
Date: Oct 13, 1994

WEEF FUNDING PROPOSAL FORM

Submitter Information

Name: Stefano Normani / Carolina Brabrook
 Phone Number: 725-6310
 E-mail Address: sdnorman@civil
 Position (ie. student, professor): Student

Proposal Information

Title: WaterLuge Concrete Toboggan Team "A" Society
 Date: Oct 27/94

Description (use the back of this page or additional paper if more space is required):

The Great Northern Concrete Toboggan Race (GNCTR) is an annual engineering competition open to schools and technical colleges from around the world. The event involves the design, construction and performance of a concrete toboggan, and is hosted by École polytechnique in Montréal this coming January. Entries are judged in concrete design, braking design, structural chassis, presentation and team spirit.

Estimated Cost of Proposal (please itemize where possible):

WaterLuge is requesting sponsorship from WEEF for approximately half of the proposed budget deficit for a total of \$1950

A current budget and a proposed budget are attached for more information.

Would partial funding to the cost estimate provided above be acceptable? (Y or N) Y

Please list the potential beneficiaries of this **proposal** (cite courses if applicable, access and availability of the proposed purchase, etc.):

Direct beneficiaries would be the 23 members of Water Luge, but the University of Waterloo would also benefit due to national and local news exposure (the competition in 1994 was covered by CBC Newsworld) gained by participating in this international competition.

Thank you for your proposal. Please submit the **original** copy to the Endowment Director.

Submitter Signature:

Date:

Stephen Norman

Oct 27/94

Cal Bork

Department Approval

Every proposal must be reviewed by the appropriate Department Head. This is done to insure that the departments are well informed, and have the opportunity to voice their opinion about proposals being presented to the WEEF Funding Council. If you are unsure who the appropriate Department Head is for your proposal, please contact the Endowment Director, Christopher Nekkers.

The following section is to be completed by the appropriate Department Head.

Name: _____

Position: _____

Phone Extension: _____

☒ **DO** ☐ **DO NOT** (circle one) approve of the above proposal.

If this proposal has not been approved, please indicate the reasons below:

Department Head Signature:

Date:

B. Norman

Nov 10/94

CURRENT BUDGET

Sponsors:

University of Waterloo:

Dean of Engineering	\$600.00
Sandford Fleming Foundation	\$500.00
Federation of Students	\$1,380.00
Engineering Society 'A'	\$200.00

Corporate:

Italia Pizza	\$200.00
John Emery Geotechnical Engineering	\$200.00

Fundraising:

B.B.Q.'s - net profit	\$900.00
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Total	\$3,980.00
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BUDGET

	Expense	Revenue	Net
Sponsors:			
University of Waterloo:			
Dean of Engineering		\$600.00	\$600.00
Sandford Fleming Foundation		\$500.00	\$1,100.00
Federation of Students		\$1,380.00	\$2,480.00
Engineering Society 'A'		\$200.00	\$2,680.00
Corporate:			\$2,680.00
Italia Pizza		\$200.00	\$2,880.00
John Emery Geotechnical Engineering Ltd.		\$200.00	\$3,080.00
other expected		\$600.00	\$3,680.00
Fundraising:			\$3,680.00
B.B.Q.'s - 12 x \$150.00		\$1,800.00	\$5,480.00
other fundraising events		\$500.00	\$5,980.00
Expenses:			\$5,980.00
entry fee (23 x \$60)	\$1,380.00		\$4,600.00
toboggan construction	\$1,000.00		\$3,600.00
uniforms	\$600.00		\$3,000.00
transportation	\$4,000.00		(\$1,000.00)
accommodation	\$2,275.00		(\$3,275.00)
promotion	\$500.00		(\$3,775.00)
Totals:	\$9,755.00	\$5,980.00	(\$3,775.00)

WEEF FUNDING PROPOSAL FORM

Submitter Information

Name: M. Kaptein
Phone Number: 3026
E-mail Address: rkap & surya
Position (ie. student, professor): Mech. Eng. Lab Director

Proposal Information

Title: WATSTAR Rm upgrade
Date: Oct. 12/94
Type (AE&R or non-AE&R): _____

Description (use the back of this page or additional paper if more space is required):
The WATSTAR Rm 1304, E2 has presented some maintenance problems during
the last year. It would be very useful to upgrade the stations with
an IBM Leopard motherboard to avoid these problems in the future and
in doing so, improve the computing power by a factor of 3.

Estimated Cost of Proposal (please itemize where possible):

Leopard IBM 486-66Mhz board	\$ 258.00
4 MB memory	212.00
	470.00
10 stations	
Total	\$ 4,700.00

Would partial funding to the cost estimate provided above be acceptable? (Y or N) ____

Please list the potential beneficiaries of this proposal (cite courses if applicable, access and availability of the proposed purchase, etc.):

All students in all years.

Thank you for your proposal. Please submit the **original** copy to the Endowment Director.

Submitter Signature: [Signature]

Date: Oct 12/94

Department Approval

Every proposal must be reviewed by the appropriate Department Head. This is done to insure that the departments are well informed, and have the opportunity to voice their opinion about proposals being presented to the WEEF Funding Council. If you are unsure who the appropriate Department Head is for your proposal, please contact the Endowment Director, Christopher Nekkers.

The following section is to be completed by the appropriate Department Head.

Name: _____

Position: _____

Phone Extension: _____

I DO / DO NOT (circle one) approve of the above proposal.

If this proposal has not been approved, please indicate the reasons below:

Department Head Signature: [Signature]

Date: Oct 14 1994

WEEF FUNDING PROPOSAL FORM

Submitter Information

Name: M. Kaptein
 Phone Number: 3026
 E-mail Address: rkap & surya
 Position (ie. student, professor): Director of Labs Mech. Eng.

Proposal Information

Title: Laboratory Stations
 Date: Oct, 1994
 Type (AE&R or non-AE&R): _____

Description (use the back of this page or additional paper if more space is required):
Both ME 482 and ME 548 use computers as part of their undergraduate
teaching lab, ME 262 has 8 labs and ME 548 use the computers for
programming and debugging of NC code. It would be very useful in
terms of overall efficiency to move the ME 548 computing need, from
the general WATSTAR Rm 2354, E2, to an improved laboratory computer
room which will also be available to all ME students when not needed
for specific courses.

Estimated Cost of Proposal (please itemize where possible):

eight	486-66 computers	\$702.00 each
	Total	\$ 5,616.00

NOTE: ME Department has purchased 10 new monitors for this
computing facility.

Would partial funding to the cost estimate provided above be acceptable? (Y or N) ____

Please list the potential beneficiaries of this proposal (cite courses if applicable, access and availability of the proposed purchase, etc.):

ME 262 approx. 75 students

ME 548 approx. 30 students

Other times all ME students.

Thank you for your proposal. Please submit the original copy to the Endowment Director.

Submitter Signature: _____

Date: Oct 12/94

Department Approval

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The following section is to be completed by the appropriate Department Head.

Name: _____

Position: _____

Phone Extension: _____

I DO / DO NOT (circle one) approve of the above proposal.

If this proposal has not been approved, please indicate the reasons below:

Department Head Signature: _____

Date: Oct 14/94

WEEF FUNDING PROPOSAL FORM

Submitter Information

Name: M. Kaptein
Phone Number: 3026
E-mail Address: rkcap & surya
Position (ie. student, professor): Director of Labs Mech. Eng.

Proposal Information

Title: Robotics computer controllers
Date: Oct 12/94
Type (AE&R or non-AE&R): _____

Description (use the back of this page or additional paper if more space is required): Robotics was first introduced to the undergraduates in 1986 with the development of ME 447. The department purchased two small robots, a CCD camera, a frame grabber and an IBM AT. Over the years, this equipment has been used extensively, however, with the recent development of ME 547, we need to replace old and improve on some of the existing equipment WEEF funded this proposal in part last term. (A CCD camera, frame grabber and some software).

Estimated Cost of Proposal (please itemize where possible):

2)	486-50 SLC computer	\$1,265.
	Total	\$2,530.

Would partial funding to the cost estimate provided above be acceptable? (Y or N) ____

Please list the potential beneficiaries of this proposal (cite courses if applicable, access and availability of the proposed purchase, etc.):

ME 447 and ME 547 about 50 students

Thank you for your proposal. Please submit the **original** copy to the Endowment Director.

Submitter Signature: _____

Date: _____

Oct 12 1994

Department Approval

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The following section is to be completed by the appropriate Department Head.

Name: _____

Position: _____

Phone Extension: _____

I **DO** / **DO NOT** (circle one) approve of the above proposal.

If this proposal has not been approved, please indicate the reasons below:

Department Head Signature: _____

Date: _____

Ray J. H. C.
Oct 14 1994

WEEF FUNDING PROPOSAL FORMSubmitter Information

Name: M. Kaptein
 Phone Number: 3026
 E-mail Address: rkap, surya
 Position (ie. student, professor): Lab Director Mech. Eng.

Proposal Information

Title: CAM CORDER
 Date: Oct 12/94
 Type (AE&R or non-AE&R): _____

Description (use the back of this page or additional paper if more space is required):

The Department has many student projects which are part of a
core course or a specific project course like ME 482. Often students
need to videotape an event for data acquisition or simply for presentation.
Our current video corder has been damaged during such an event and needs
to be replaced.

Estimated Cost of Proposal (please itemize where possible):

Panasonic Camcorder wih 12X zoom and high speed shutter.

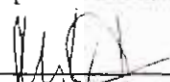
\$ 1,098.00

Would partial funding to the cost estimate provided above be acceptable? (Y or N) ____

Please list the potential beneficiaries of this proposal (cite courses if applicable, access and availability of the proposed purchase, etc.):

Students of all year courses like ME 482 and other design oriented courses.

Thank you for your proposal. Please submit the **original** copy to the Endowment Director.

Submitter Signature: 

Date: Oct 12/94

Department Approval

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The following section is to be completed by the appropriate Department Head.

Name: _____

Position: _____

Phone Extension: _____

I DO / DO NOT (circle one) approve of the above proposal.

If this proposal has not been approved, please indicate the reasons below:

Department Head Signature: 

Date: Oct 14/94

WEFF FUNDING PROPOSAL FORM

Submitter Information

Name: John J. McPhee
Phone Number: ext. 5341
E-mail Address: mcphee@dial
Position (ie. student, professor): Assistant Professor

Proposal Information

Title: DADS Engineering Software
Date: 6 October 1994
Type (AE&R or non-AE&R): _____

Description (use the back of this page or additional paper if more space is required):

DADS is a computer-aided engineering program that automatically generates and solves the equations of motion for mechanical systems such as mechanisms, vehicles, and robotic manipulators, given only a description of the system as input. Computer animations of the calculated results provide insight into the system motion and the underlying physics.

(See attachments for further information.)

Estimated Cost of Proposal (please itemize where possible):

U.S.\$2000 (approximately CDN \$2800)

This price covers the cost of 25 copies of the student version of DADS, for installation on the network of DEC workstations in either the Harbour or Beacon labs. This one-time cost includes both documentation and maintenance.

Would partial funding to the cost estimate provided above be acceptable? (Y or N) N

Please list the potential beneficiaries of this proposal (cite courses if applicable, access and availability of the proposed purchase, etc.):

Because of its general nature, the DADS software would be of use to any students taking courses in mechanical design or dynamics. In particular though, undergraduate students in SD 382 (Modelling and Simulation of Mechanical Systems), SD 553 and ME 524 (Advanced Dynamics), and ME 321 (Kinematics and Dynamics of Machines) would benefit greatly from access to this computer-aided design tool.

Thank you for your proposal. Please submit the **original** copy to the Endowment Director.

Submitter Signature: [Signature]
Date: 6 October 1994

Department Approval

Every proposal must be reviewed by the appropriate Department Head. This is done to insure that the departments are well informed, and have the opportunity to voice their opinion about proposals being presented to the WEEF Funding Council. If you are unsure who the appropriate Department Head is for your proposal, please contact the Endowment Director, Christopher Nekkers.

The following section is to be completed by the appropriate Department Head.

Name: _____
Position: _____
Phone Extension: _____

I **DO / DO NOT** (circle one) approve of the above proposal.

If this proposal has not been approved, please indicate the reasons below:

Department Head Signature: _____
Date: _____

WEEF FUNDING PROPOSAL FORM

Submitter Information

Name: Clark Anvick
Phone Number: 884-7896
E-mail Address: CNAnvick@Mechanical
Position (ie. student, professor): student

Proposal Information

- ① Title: Computer Skills Upgrading Course
Date: first two weekends of
2B (May 95)
- ② Security System for Watstar
ASAP
- in order to prevent costly
thfts. (i.e. system like
U of Guelph's)

Description (use the back of this page or additional paper if more space is required):

- ① A set of course notes will be written.
- these notes will focus on AutoCad and Unix
- course notes will be developed by an instructor from a Community College
- these notes will developed in a command definition format.
- the notes will be sent out 2wks before 2B
- the first 2 weekends will be used as a hands on
lecture. An instructor will be present such that
many small assignments can be done and questions asked.
- an introduction to Unix will also be covered.

Estimated Cost of Proposal (please itemize where possible):

- ② - for estimated cost, contact U of Guelph.
- ① - Cost Outline:
- | | |
|---|---|
| - Student/instructor writing fee | ? |
| - Printing fee (200 pages) | ? |
| - distribution fee (possibly payable by students) | ? |
| - Instructor time (37 hrs) | ? |

Would partial funding to the cost estimate provided above be acceptable? (Y or N) N

Please list the potential beneficiaries of this proposal (cite courses if applicable, access and availability of the proposed purchase, etc.):

- ① - This would be an experiment on the 2A Mech Class
- after workshops are completed, a survey of students should be taken
- a yr of refinement should be allowed
- then the workshop and supporting notes will be presented to the 1A classes (Mech, Civ)
- this will prove to be quite helpful to all students for Co-op placement.
- ② - WEEF (spend less on replacement costs)

Thank you for your proposal. Please submit the **original** copy to the Endowment Director.

Submitter Signature: _____

Date: _____

Department Approval

Every proposal must be reviewed by the appropriate Department Head. This is done to insure that the departments are well informed, and have the opportunity to voice their opinion about proposals being presented to the WEEF Funding Council. If you are unsure who the appropriate Department Head is for your proposal, please contact the Endowment Director, Christopher Nekkers.

The following section is to be completed by the appropriate Department Head.

Name: _____

Position: _____

Phone Extension: _____

I **DO / DO NOT** (circle one) approve of the above proposal.

If this proposal has not been approved, please indicate the reasons below:

Department Head Signature: _____

Date: _____

WEEF Proposals

Extended Description:

1) The 2A Mechanical class has expressed their desire to upgrade themselves in computer skills. A large percentage of the class felt that they did not have the type of computing skills that the "good" jobs were asking for. A small number of students in the class have had the opportunity to learn on the job site various software packages (AutoCad, "C", simulations, etc.). The remaining students are currently finding that they are not getting the interviews due to lack of computer skill. This proposal addresses this problem.

The students largest concern is AutoCad and Unix. A survey was taken, and 78% of the students felt that they did not know AutoCad well enough to be able to use it at a work site. We would like to be taught this software package in a short 4-5 day "clinic" at the beginning of 2B. A rough outline of the course follows:

Over this next Co-op term, (Jan.- May) we would like to see a packet put together that would provide an "idiots guide to AutoCad". This could possibly be written by a student or an instructor from a technical college. The notes would be sent out 2-3 weeks before the beginning of 2B. This would provide students time to read through the notes. Once they arrive on campus, the first 2 weekends will be dedicated to hands on experience. Possibly up to eight hours a day. During this time small assignments will be done, and a small staff of experienced people will be available to answer questions. Hopefully this will provide a base for students to build from. Although in the past, students didn't have to worry about this "draftperson" skill, it was up to the employer to teach these skills. We feel the pressure to be better equipped. After this "experimental" course is completed, a survey should be taken to find out how effective the course was. Modifications will need to be made, but hopefully in the future this "course" can be used. If the course works well, I feel WEEF should consider implementing this at the 1A/1B level for all Mechanical and Civil Engineering students. Furthermore, if this does prove to be effective, other software packages could be introduced/taught in this manner. At the beginning of every term a software package could be taught. This would equip students very early in their Co-op careers.

Outline of Notes:

- I) General introduction
- II) How to start
 - 1) set-up of page/parameters
 - 2) introduction to all preliminary and basic commands
- III) Commands for Drawing
 - 1) Line and curved line drawing
 - 2) Drawing lines in 3-d

- 3) Editing commands
 - i) shortcut methods
 - ii) exploding and point picking etc.

- III) Rendering
 - 1) visual tools and presentation methods
 - 2) labelling , adding measurements
- IV) Plotting
- V) Intro to UNIX
 - 1) comparison between DOS and Unix
(i.e. Dos command = _____ Unix Command)

2) Over the past year I've heard about thefts from the computing facilities on campus. Unfortunately I don't have an exact figure of the worth of the stolen property. However, I feel that the computers are a little too accessible and there is no security system. I realize that a security system could cause problems or be very expensive, but a student in the 2A mech. class informed me that U of Guelph has an easy and effective security system. Please look into this, I feel it might be a worthwhile expense.

MEMORANDUM.

To: Members of the Board of Directors the
"Waterloo Engineering Endowment Fund".

From: Guenther Metzker, Lab Director.
Department of Systems Design.

Cc: Prof. K. W. Hipel, Chair, Dept of Systems Design.

Subject: Project proposal for consideration by WEEF, Fall 94 academic term.

Please find attached several proposals from the Department of Systems Design for your kind consideration.

These proposals are intended to improve the quality of teaching and specifically the "Undergraduate teaching laboratory" in Systems Design. The laboratory equipment preference within the proposals was arrived at in discussions with student representatives, faculty members, the Chair, Associate Chair, and myself.

Sincerely,


G. Metzker.

WEEF FUNDING PROPOSAL FORM

Submitter Information

Name: Guenther Metzker

Phone Number: Ext 5760

E-mail Address: gmetzker@zeus

Position (ie. student, professor): Lab. Director, Dept. of Systems Design

Proposal Information

Title: Laboratory upgrade; Oscilloscopes

Date: Oct. 10, 1994

Fall 94. Academic Term

Description (use the back of this page or additional paper if more space is required):

Dual channel digital storage Oscilloscopes, Tektronix model No. TDS 310.

The currently used Oscilloscopes had been purchased in 1974 and are becoming ever more unreliable. Our proposal is to replace all of our Oscilloscopes in the teaching laboratory with new digital technology Oscilloscopes in a planned manner by the fall of 1995.

We have already purchased one Oscilloscope with a previous WEEF grant (Summer) and one from Alumni funds.

Estimated Cost of Proposal (please itemize where possible):

The cost of the Oscilloscope model No. TDS 310 is \$ 3585.00


Would partial funding to the cost estimate provided above be acceptable? (Y or N): YES.

Please List the potential beneficiaries of this proposal (cite courses if applicable, access and availability of the proposed purchase, etc.):

The equipment purchased with these funds will be used in the systems design undergraduate laboratory for all SYDE Laboratory courses. (SYDE192, SYDE292, SYDE352, SYDE283.)

The Laboratory is also available to all systems students for all there course requirements.

To date we have purchase two Oscilloscopes and plan to purchasing the additional units (a total of eight are required) with next years Teaching Equipment Fund. We indicated in the previous WEEF grant proposal that we will ask for one additional Oscilloscopes in the next spending cycle.

Submitter Signature: 

Date: Oct. 10, 1994.

Department Approval

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The following section is to be completed by the appropriate Department Head.

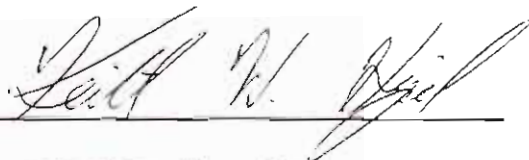
Name: Prof. K W. Hipel

Phone Extension: 4644

(I DO) DO NOT (circle one) approve of the above proposal.

If this proposal has not been approved, please indicate the reasons below:

Department Head Signature:



Date: October 11, 1994