Academic Resources and Computing Committee
Proposal for Funding

Due Thursday, April 1, 2004 (4:30 p.m.)

Project Title: Enhancement of Zoology Instruction

Project Director: Barbara Trask

Department(s): Zoology

College(s): College of Science

E-Mail: btrask@weber.edu: **Extension:** 6169

Other Members of the Project Team: Jonathan Clark, Diego Bernal, and Robert Okazaki

Instructions:

1. Please complete each section in the space provided. The justification section should not exceed two single-spaced typed pages. (An addendum may be attached describing details   of specific hardware and/or software that are requested with this proposal.)

2. You are required to obtain the signature of an ARCC representative for your college, indicating that she/he is familiar with the proposal, and can speak to it during funding deliberations.

3. Your department chair's signature is also required, indicating that she/he supports the proposal, and that the proposal is in keeping with departmental goals related to information technology and its applications to the academic mission of the institution. Your Chair's signature also indicates her/his commitment to help support the project financially if so indicated on the budget page.

4. Your dean's signature is also required, indicating that she/he has read and supports the project. Your dean's signature also indicates her/his commitment to help support the   project financially if so indicated on the budget page.

5. Your college's computer committee must rank the proposal, and the committee chair's signature is required.

6. For certain projects an IT expert's signature is required. You must contact the appropriate individual if you are implementing a wireless network, multimedia   classroom, software/hardware purchase that will require use of a campus server or   work with online course software like WebCT Vista or ChiTester. You must give time   before the deadline - the recommendation is 3 weeks - for that person to do an evaluation.

7. Submit one copy of the proposal, together with all relevant signatures, by 4:30 p.m., Thursday, April 1, 2004. NOTE: the ARCC no longer requires seventeen copies.

8. You must both email a soft copy and mail a hard copy of the proposal to the chair, David Ferro, MC 2401.

ARCC Representative:

   I have read the proposal and discussed it with the Project Director.

   _____
                            ARCC Representative

Comments:

Department Chair:

   The Department has reviewed this project within the context of overall information technology planning within the Department. If the budget page indicates financial support from the Department, I agree to commit those funds to this project.

   _____
                            Department Chair

Comments:

College Dean:

   I have reviewed this project. If the budget page indicates financial support from the College, I agree to commit those funds to this project.

   _____
                            College Dean

Comments:

College Computer Committee Chair:

   This proposed project has been reviewed and discussed by our college's computer committee. It is the consensus of the committee that this proposed project is consistent with information technology goals within the college. Furthermore, after ranking all of the proposals submitted by our college, we rank this proposal in priority

   as _____ out of a total of_____ proposals submitted this year.*

   ***Note: Each proposal must be given a separate ranking; no two proposals may receive the same rank.**

   _____
                            College Computer Committee Chair

Comments:

IT Representative:

For certain projects an IT expert's signature is required. You must contact the appropriate individual if you are implementing a

WIRELESS NETWORK **(contact Brook Chase at <u>bhchase@weber.edu</u> or x7192),**

MULTIMEDIA CLASSROOM **(contact Bob King at <u>rking@weber.edu</u> or x6865),**

CERTAIN SOFTWARE/HARDWARE purchases that will require use of a campus server or work with online course software like WebCT Vista or ChiTester **(contact Ted McGrath at <u>tmcgrath@weber.edu</u> or x7196).**

I have read the proposal and discussed it with the Project Director.

_____

IT Representative (printed and signed)

Comments (including status):

Justification

Your proposed project should be described as clearly and succinctly as possible in the spaces provided below. Be sure to review the "Criteria for Funding" document. *The entire justification section should not exceed two single-spaced pages.*

Abstract (project summary):

This proposal seeks funds to purchase three Canon RE450 visualizer systems and three Panasonic PT-LC76U video projectors. This hardware will greatly enhance the instruction of the various zoology laboratory courses that are taught in SL 428, 429, and 430.

Objectives and goals of this project:

The current instructional activity requires visual aids to be displayed in the laboratory portion of the courses. These aids include overhead transparencies, photographic slides, live specimens, fossils, preserved microscopic slides, anatomical structures, and computer-linked animation and photographs. The Canon RE450X visualizer system coupled with Panasonic PT-LC76U xga video projector installed in SL 424 has been successfully used by the Department of Botany, especially in demonstrating plant structures in their laboratory courses. The visualizers requested will be coupled to the higher resolution xga video projectors to readily display biological speciments with instant focusing and detailed viewing through enhanced resolution.

Identify specific courses and/or programs that will directly benefit from this project:

(You may also want to describe how specific courses may be enhanced by this project.)

The visualizer and video projector units will enhance the following departmental laboratory courses and impact approximately 960 students/academic year.

Zoology 1110 Principles of Zoology I	250/yr
Zoology 1120 Principles of Zoology II	125/yr
Zoology 2200 Human Physiology	250/yr
Zoology 3200 Cell Biology	90/yr
Zoology 3300 Genetics	60/yr
Zoology 3450 Ecology	40/yr
Zoology 4060 Comparative Physiology	30/yr
Zoology 4350 Animal Behavior	20/yr
Zoology 4470 Wildlife Ecology	30/yr
Zoology 4480 Aquatic Ecology	10/yr
Zoology 4650 Ichthyology	20/yr
Zoology 4670 Ornithology	30/yr
Zoology 4970 Thesis	5/yr
	Total 960/yr

This total does not include summer laboratory courses which depends on what courses are taught. Projected numbers of students enrolled in the summer session, 2004, is estimated to be 150 students.

If applicable, describe how this project will help to increase faculty productivity or enhance competency in some area of information technology.

(Please note that ARCC does not support faculty desktop or laptop computers.)

The visualizers and video projectors will enable faculty to be productive in their teaching by improving their visual display capacity. In modern science instruction, visual images are essential to enhance student understanding. Also the installed in-housed visualizer in each of the three labs would provide savings in time for faculty by eliminating daily set up and take down of portable computer and video projector systems.

Describe how the success of this project will be evaluated.

(If reports or publications are anticipated from this project, please indicate such.)

We anticipate that the success of this project will be reflected in the improvement of student evaluation of courses for faculty who utilize the visualizer-video projection system.

Timeline:

(If funded, when will this project be implemented?)

The visualizers and video projectors will be purchased in July. The hardware will then be installed in each of the three labs in July-August. The projection systems will then be ready for the fall semester, 2004.

Budget

Note: Please be as specific as possible regarding requested hardware, software, or other resources (you may include an addendum to describe the hardware). If funds are being committed from other resources, please so indicate.

	ARCC	Department	College	Other
Hardware:	**(Requested)**	**(Committed)**	**(Committed)**	**(Committed)**
3 Canon RE450X Visualizer System ($1377/unit)	$ 3,631		$500	
3 Panasonic PT-LC76U Projectors ($1498/unit)	$ 3,994		$500	
3 RPA 735 Ceiling Mounting Brackets ($148/unit)		$ 444		
Hardware Subtotals:	$ 7,625	$ 444	$1000	

	ARCC	Department	College	Other
Software:	**(Requested)**	**(Committed)**	**(Committed)**	**(Committed)**
Software Subtotals:				

	ARCC	Department	College	Other
Other:	**(Requested)**	**(Committed)**	**(Committed)**	**(Committed)**
Other Subtotals:				
Grand Totals:	$ 7,625	$ 444	$1000	

TOTAL FOR PROJECT: $ 9,069   (Sum of all columns)

Additional Resources

Please describe what other resources will be required to implement this project:

(Additional resources may include needs such as Academic Computing technical support or hardware installation through Electronic Services.)

The department will contract the Facilities Management for installation of the ceiling mounts and power outlets for the video projectors. The department will absorb the $245 estimated for this installation.