

Biological Sciences Department

Here is the final report for spending of the Bio-SFC funds for the third year of the College Based Fee program. This program is an amazing blessing for the Biology Department and for the College of Science and Mathematics in general. Thanks again to those students who had the foresight to make this possible, and thank you to all the students who are putting the cash into this committee's hands to do all the good things we've been able to do this year. In spite of budget cuts from Sacramento, we were able to keep our class offerings at their historically normal levels and we were still able to bring increased quality to the major's classes by purchasing equipment, supplementing faculty support and directly funding student research. The bottom line is that once again all of our programs, Cell/Molecular Biology, Marine Biology, Microbiology, Field Biology, Anatomy/Physiology and Botany, benefited enormously from these funds.

SUMMARY OF ALLOCATIONS AND SPENDING FOR 2004/05

Original 2003/04 Allocation from the Dean	\$ 400,000
Rollover from 2003/04	\$ 3,257
Adjustment due to low enrollment	\$ -12,771
Total BIO-SFC funds for 2004/05	\$ 390,486
Total Spending for 2004/05	\$ 384,059
Balance – rollover for 2005/06	\$ 6,427

CATEGORICAL SUMMARY FOR 2004-05

CATEGORIES	ALLOCATIONS	EXPENDITURES
Instructional Equipment >\$500/Item	\$ 107,500	\$ 130,541
Equipment Less Than \$500/Item	\$ 10,000	\$ 0
Instructional Supplies	\$ 20,000	\$ 22,147
Part-Time Instructors	\$ 130,000	\$ 130,000
Biology Introductory Series	\$ 20,000	\$ 12,934
Biology Computing Facility	\$ 10,000	\$ 7,734
Journal Subscriptions	\$ 7,500	\$ 7,470
Environmental Career Symposium	added	\$ 1,675
Faculty Development	\$ 5,000	\$ 3,528
Faculty Sponsored Travel & Field Trips	\$ 20,000	\$ 9,182
Undergraduate Research & Travel	\$ 25,000	\$ 16,231
Graduate Research & Travel	\$ 25,000	\$ 18,881
Student Assistants	\$ 20,000	\$ 23,736
TOTAL	\$ 400,000	\$ 384,059

DETAILS OF SPENDING FOR 2004-05

INSTRUCTIONAL EQUIPMENT

EXPANDED FACILITIES AT THE CENTER FOR COSTAL MARINE SCIENCE PIER \$ 31,686

Our marine courses regularly use the Center for Costal Marine Science pier as part of their laboratory experience. This year, student fees money was used to purchase a remotely operated underwater vehicle that can relay images to stations back at Cal Poly. The classroom at the pier was upgraded for digital presentations and a series of large storage containers were purchased to augment the dwindling space at the facility.

MULTI-USE PHYSIOLOGY/MOLECULAR/CELLULAR BIOLOGY EQUIPMENT \$ 82,873

The physiology and molecular/cellular Biology programs benefited from the purchase of several items that could be used in several different venues. A vacuum centrifuge for drying samples, a micromanipulator for microscope scale dissections, a cell sorter to count cells with different properties and a set of goniometers (measure bending force) for the BioPac physiology recorders will all be used to modernize the experimental approaches available in these programs.

LAP TOP COMPUTERS FOR EQUIPMENT AND PRESENTATIONS \$ 15,982

As more complex equipment becomes available for teaching labs the demand for laptop computers to run these devices, as well as download and manage data from them increases. In addition, many lab instructors now make digital presentations a standard part of laboratory teaching, necessitating the use of more laptop computers and as some breakdown others are needed to fill the gap during repair. This year, a total of 8 new laptops were purchased.

TOTAL **\$ 130,451**

EQUIPMENT LESS THAN \$500/ITEM

No equipment costing less than \$500 each was purchased this year.

TOTAL **\$ 0**

INSTRUCTIONAL SUPPLIES

Expendable supplies for running laboratories and classes. These supplies were used to enhance upper division laboratories for majors ranging from Microbiology and Cell Biology to Physiology and Botany.

TOTAL **\$ 22,147**

PART-TIME INSTRUCTORS

These funds were used to offset budget losses sent to us from our friends in Sacramento. The extra funds for part-time instructors ensured that the usual number of upper division major's classes were could be offered instead of cutting back class offerings due to the budget shortfall. This meant that many more juniors and seniors were able to take the courses they wanted because full-time faculty were available to teach them.

TOTAL **\$ 130,000**

BIOLOGY INTRODUCTORY SERIES

Dr. Michael Black and Dr. Dean Wendt took extra time out of their busy schedules to prepare the first two courses in the updated and revamped Introductory Biology Series (BIO160, Bio161, BIO162 and BIO263) that will be offered beginning next academic year in Fall, 2005.

TOTAL **\$ 12,934**

BIOLOGY COMPUTING FACILITY

These funds were used to hire student monitors to help our majors with the computers and keep an eye on equipment that could grow legs. It also covered printing costs so that our students did not have to pay for printing.

TOTAL \$ 7,734

JOURNAL SUBSCRIPTIONS

A year-long online subscription to Nature magazine was purchased at the request of the Bio-SFC. After discussion with Kennedy Library staff, the Library will pay for the subscription in coming years.

TOTAL \$ 7,470

ENVIRONMENTAL CAREER SYMPOSIUM

This year the Wildlife club asked for exclusively Bio-SFC funding to help run the Environmental Career Symposium. The Symposium was once again a great success and came in well under budget. This item was included as a regular expenditure in the proposed budget for 2005/06.

TOTAL \$ 1,675

FACULTY DEVELOPMENT

Three faculty members used funds to attend meetings on topics relevant to coursework, student centered research and education.

TOTAL \$ 3,528

FACULTY SPONSORED TRAVEL & FIELD TRIPS

This money was used to support faculty who took more than 5 students to meeting with class related topics. Travel costs were covered for students and faculty who attended meetings or went on extended field trips. Four faculty members organized class trips with these funds.

TOTAL \$ 9,182

UNDERGRADUATE STUDENT RESEARCH AND TRAVEL

Funds were used for students to attend meetings and to order supplies and travel for senior projects. A total of 41 undergraduates were able to fund their senior projects or travel to present their research at meetings with Bio-SFC money.

TOTAL \$ 16,231

GRADUATE STUDENT THESIS RESEARCH AND TRAVEL

These funds were used for graduate students to attend meetings and order supplies or travel to complete their Master's Thesis projects. A total of 21 graduate students were able to buy supplies and travel to locations essential for aspects of their Master's work that was not funded by other sources.

TOTAL \$ 18,881

STUDENT ASSISTANTS

Funds were used to support upper-division laboratories to enhance the type and depth of experiments instructors were able to offer to students. The total was higher than expected this year due to the number of new faculty requiring help while building new courses for majors.

TOTAL \$ 23,736