

College Based Fee 2002/03-2008/09

Department of Physics

Since the inception of the College Based Fee (CBF) the physics department has focused our CBF expenditures in three areas: student/faculty research, equipment, and access to courses. Below are some of the highlights of our CBF expenditures.

Student/faculty research

Summer stipends for students (and faculty)

Our summer research program has grown and is now an established part of the department's activities. Each summer since 03/04 we have had **20 students per year** (or more) supervised by about 10 faculty members. Students have followed up their summer projects with senior projects and independent study.

Faculty and student travel

Each year since the CBF program began, faculty and students have traveled to regional, and national conferences to present talks and posters describing their research and meet with collaborators. About **twenty faculty** each year along with up to **fifteen students** have been supported.

Ongoing support for student/faculty research

Faculty members with active student involvement have been allocated funds to support their professional development after initial start-up funds have been exhausted. This has resulted in equipment purchases and travel.

Equipment for teaching labs

The infusion of CBF funds into the teaching laboratories has been essential for the purchase of equipment and would not have been possible otherwise.

- Electronics: Nine completely new student stations with computer-interfaced power supplies, function generators, multimeters, oscilloscopes.
- Quantum lab: Introduction of several new experiments, particularly noteworthy are the **Pulsed NMR, Optical Pumping, and Diode Laser Spectroscopy**. Upgrades to all student stations including new computers, Multi-Channel Analyzers, oscilloscopes, and GPIB interfacing hardware.
- Solid state lab: Upgrade of Semiconductor band gap with computer interface.

Access to courses

CBF funds have been used to support our offerings in the upper-division courses, especially in the area of electives. In several cases (e.g., Special Relativity, Thermal) an additional section of a course was offered. In most years we continued to offer upper-division electives without the requirement of large enrollments.