

Department of Physics

McMicken College of Arts and Sciences

**SUMMER RESEARCH OPPORTUNITIES  
FOR UNDERGRADUATE WOMEN**

**APPLICATION DEADLINE: March 1, 2007**

*The Department of Physics is pleased to offer the following research project for the summer of 2007. Interested students are urged to contact the faculty member(s) directing the project that most interests them. By contacting the faculty member, you can discover more about the project, learn what your responsibilities will be and if possible, develop a timetable for the twelve-week research period.*

**BABAR – ANALYSIS OF HEAVY QUARK DECAYS**

**Professor Michael Sokoloff**

A&S-Physics

GEO-PHYS 411

P. O. Box 210011

Cincinnati OH 45221

Tel: (513)556-0533

Fax: (513)556-3425

E-mail: mike.sokoloff@uc.edu

**Project Description**

We have an opportunity for a student to work on the analysis of data from the Babar experiment at the Stanford Linear Accelerator Center. This is a high energy physics experiment which (primarily) studies the decays of particles containing charm or bottom quarks. The student does not need any background with particle physics, but should have completed at least one year of calculus-based physics. The position will entail extensive computer programming, although no specific knowledge of computers or experience is necessary.