

Application

Name (last, first):

Name of School and School District:

Mailing Address:

Work Phone:

Home Phone:

E-Mail Address:

Number of years teaching science in public secondary schools: _____

List the research experiences you would prefer, in order of preference:

Submission of Application

Deadline: Friday, April 1, 2005

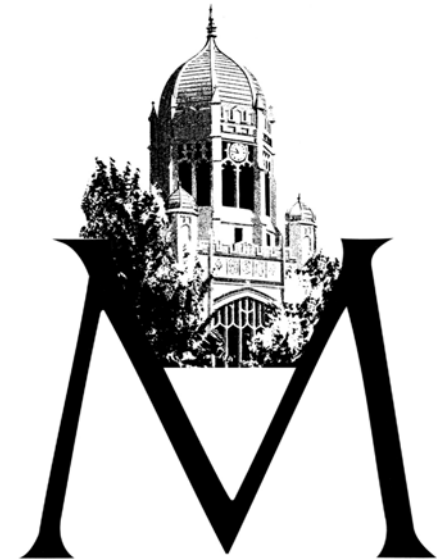
Submit to:

Dr. Elizabeth McCain
Program Coordinator
Biology Department
Muhlenberg College
2400 Chew Street
Allentown, PA 18104

With your completed application, please include :

1. A list of all public secondary education science courses you are teaching, the level (AP, college-prep, etc.), and the grade.
2. A statement, describing why you want to participate in the Secondary Education Partnership Program and how you might apply your summer research experience to your own classroom. Please limit to one page, single-spaced.
3. If you have any time constraints or specific dates when you could not participate, please describe them.

Summer 2005
**Muhlenberg College & FIPSE
Science
Secondary Education
Partnership Program**



- Work on a defined laboratory research project with Muhlenberg College faculty for 4 weeks or attend a week-long marine biology field course at the Shoals Marine Laboratory in Maine
- Stipend included
- Fulfills Act 48

Descriptions of Opportunities

#1 Dr. Amy Hark: "The effects of environmental stresses on *Arabidopsis* plants that harbor defects in gene regulation."

#2 Dr. Erika Iyengar: Enroll in her Shoals Marine Laboratory graduate (2 credit) course, "Field Marine Ecology and Environmental Science for Teachers."

#3 Dr. Elizabeth McCain: "Using a scanning electron microscope to document regeneration in a marine worm."

#4 Dr. Richard Niesenbaum: "Linking ecology, leaf chemistry, and plant genetics to assess abiotic and biotic determinants of herbivory."

#5 Dr. Charles Russell: "Development of an asymmetric intermolecular Heck reaction."

For further information about each research experience or the field course, or to request an online version of the application, you may contact Dr. Elizabeth McCain at mccain@muhlenberg.edu or go to www.muhlenberg.edu/depts/biology/.



Research Experiences:

Each of these research experiences with the Muhlenberg College faculty is designed to provide middle and high school teachers with new science skills and information. The four-week on-campus projects are also flexible, so a teacher can work in collaboration with a faculty member to create a unique and applicable experience within the general framework of the research described.

Before the summer program begins, faculty and teacher partners will meet to discuss the goals and details of the project.

For those attending the one week field course at the Shoals Marine Laboratory on Appledore Island, Maine, you can receive 2 graduate credits or Act 48 credit. Tuition, room, and board are paid for but participants are responsible for travel to and from the marine lab.

The Science Secondary Education Partnership Program

Dates: The application deadline is April 1, 2005. Teachers will be notified by April 22, 2005, of their acceptance into the program and a contract must be signed by May 5.

Duration of Program: The program on the campus of Muhlenberg is four weeks long (160 hours) but the exact dates of attendance are determined by the faculty sponsor and the teacher. The Shoals Marine Laboratory course is the week of August 1 through August 8.

Stipend: The stipend is \$1,800 for teachers working in a Muhlenberg College laboratory during the four-week program. In addition, there are some funds available for laboratory supplies and travel to a scientific conference. For teachers going to the Shoals Marine Laboratory for the field course, the tuition, room and board are paid for (\$1,060) and a \$740 stipend is also awarded.

Funding for this program was made possible through The Fund for Improving Postsecondary Education (FIPSE), a grant from the U.S. Department of Education, with support from U.S. Senators Rick Santorum and Arlen Specter.