

## Segrè Internships for Summer 2010

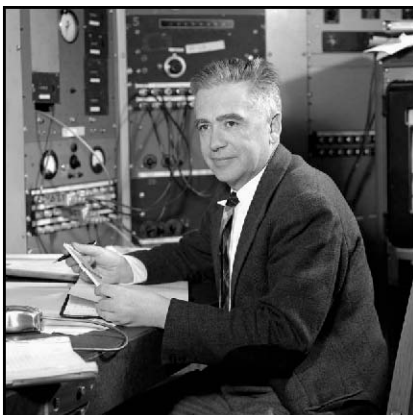
### Physics 111 Laboratory

Students are invited to apply for the Segrè Internship, to be awarded to undergraduate or graduate students who have taught in, completed or are completing the 111-Advanced Laboratory course. Interns will learn research techniques as they collaborate with faculty and staff to improve experiments and develop new ones. Responsibilities include:

- researching the underlying physics of the experiments -
- participating in building apparatus -programming computers to acquire data and control experiments, -testing and trouble-shooting experiments

Interns also provide valuable input by contributing to the write-ups for the experiments. Possible projects for this summer include modifying, testing, and developing the newly functional Atom-Trapping and Laser Tweezers experiments, add a new laser to Magneto Optical Experiment, and revising of write-ups in the 111-Lab connected with the Reprint Library site.

*The internship is for eight weeks in June and July with a stipend of at least \$ 4,000.*



*In Memory of Emilio Segrè*

This award is given in memory of Emilio Segrè (1905-1989). Born in 1905, Segrè was the first student to earn his doctoral degree under the sponsorship of Italian physicist Enrico Fermi, his friend and collaborator for more than three decades. Upon immigrating to this country in 1938 (he later became an U.S. citizen), Segrè accepted a position at the University of California, Berkeley. There, he commenced one of his most productive periods in nuclear physics, working with Glenn Seaborg, a chemistry professor, on methods of separating nuclear isomers. In the period following World War II, the anti-proton, an atomic particle that sought to prove nature's symmetry still eluded scientists. In 1955, using Berkeley's powerful new cyclotron, Owen Chamberlain and Emilio Segrè made the first observation of the anti-proton. This discovery signaled a major leap in the study of matter and antimatter. Emilio G. Segrè received the Nobel Prize in 1959 for his work with Anti-Protons.

#### ***To Apply for the Segrè Internship***

Applications are available on-line at [Segre Internship](#) and should be submitted by April 26th to: Don Orlando Department of Physics 366 LeConte #7300 Berkeley, CA 94720-7300 E-mail: [phylabs@berkeley.edu](mailto:phylabs@berkeley.edu)

Two interns will be selected and notified by Monday, May 3<sup>rd</sup>.

**The Segrè Internship  
APPLICATION  
Summer 2010**

Please Print

Last Name \_\_\_\_\_ First Name \_\_\_\_\_ Initial \_\_\_\_\_

Home Address: \_\_\_\_\_

E-mail address: \_\_\_\_\_ Campus Phone: \_\_\_\_\_

Home Phone: (\_\_\_\_\_) \_\_\_\_\_ Cell Phone (\_\_\_\_\_) \_\_\_\_\_

Birthdate: \_\_\_\_\_ SID# \_\_\_\_\_

CalNet Login Name: \_\_\_\_\_

Student Status: Undergraduate \_\_\_\_ Graduate \_\_\_\_ Major \_\_\_\_\_

111 Lab Experience: Completed \_\_\_\_ Currently Enrolled \_\_\_\_\_

Do you currently hold a fellowship? No \_\_\_\_ Yes \_\_\_\_ Title: \_\_\_\_\_

***Please attach or send your resume and all work experience with this application to Don Orlando address below:***

The Segrè Internship provides a minimum \$4,000 stipend and requires a full-time 8-week commitment. Interested students must submit a completed application and Job experience information by April 26<sup>th</sup>, to:

Don Orlando Department of  
Physics 366 LeConte #7300  
Berkeley, CA 94720-7300  
  
(510) 642-5328  
E-mail: [phylabs@berkeley.edu](mailto:phylabs@berkeley.edu)

Two selected interns will be notified by Monday, May 3, 2010. Internship will begin on Tuesday, June 8, 2010 or TBA. See 111 Laboratory Sr. Staff Engineer Don Orlando for more details.