

EXPLORATIONS in SCIENCE RESEARCH

An *Undergraduate* Summer Program

June 11–18, 2011

University of California, Berkeley

Applications due March 15, 2011

Applications and Reference Forms:

<http://scienceconnections.berkeley.edu>

Organizers:

Ron Cohen, Chemistry

David Culler, Electrical Engineering &
Computer Science

Deborah Nolan, Statistics



photo by Eileen Barroso

Scientists have an important role in addressing the serious challenges we face due to energy use and climate change. As we look to our human future, it must be a top priority for research to inform policy decisions about how we produce, use, and store energy, and how we manage emissions that contribute to air pollution and climate.



photo by Elizabeth Rookstool

The Explorations in Science Research Workshop invites students to enjoy 7 days in Berkeley learning from scientists whose research can influence policy about greenhouse gases, air quality, and energy use.

Students will receive a basic introduction to the scientific questions researchers are asking, as well as the instruments, data, and analytic tools they use to find answers. Through computer labs, students will work in small groups guided closely by faculty and graduate students. Students will use actual data from current research in the fields of chemistry, earth and atmospheric science, and computer science.

The Explorations in Science Research Workshop will provide students with the skills to perform data manipulations, conduct exploratory analyses, and create informative visualizations. Students will discover how to perform data analyses that can be used to change practices so that we can improve air quality, increase energy efficiency, and enable penetration of renewable supplies into the energy mix.

For more information:
berkeleyscienceconnections@berkeley.edu
or call (510) 642-0919

This workshop is made possible by a grant from the National Science Foundation.