Do you want to know what prompts the Santa Ana Mountains to disappear from view on hot sunny days? Do you want to learn how scientists measure the amounts of air pollutants in the air you breathe? Are you curious to know how the molecular properties of these air pollutants are calculated? Do you want to simulate the effect of removing all cars from local highways on the air quality in the Los Angeles basin? If you are intrigued by these questions and concerned about our environment, sign up for the new training & outreach program in Environmental Chemistry for Science teachers at UCI. You will have access to modern instrumental analysis and computer laboratories under the guidance of professional researchers from AirUCI, the new Environmental Molecular Sciences Institute at UCI. You will get a chance to visit cutting-edge research laboratories and use modern analytical instruments and computer packages for environmental research. Come and share the excitement of scientific discoveries with us!

**Sponsor:** AirUCI Institute, sponsored by NSF  
**Time:** June 22 - July 2, 2009, 9 am – 4 pm  
**Location:** UCI Chemistry Department  
**Course Code:** CHEM X416 *(6 quarter credit units)*  
**Website:** [http://www.chem.uci.edu/airuci/](http://www.chem.uci.edu/airuci/)

**Goals:** Provide middle and high school science teachers with hands-on laboratory and computational experience in environmentally-oriented problems.

**Program description:** Two-week training program consisting of lectures followed by laboratory work. The hands-on lab work will focus on selected environmental problems. Supporting lectures will be offered by AirUCI faculty members and other top environmental scientists.

**Sample projects:** simulations of molecular structures of simple air pollutants such as ozone and nitrogen dioxide; simulations of air pollution dynamics in L.A. basin; measurement of ozone level produced by certain indoor air-purifiers; detection of PAHs in cigarette smoke with liquid chromatography.

**Administrative details:** Participating teachers will receive a stipend of $1000 per person. Lunch and parking permits will be provided. AirUCI will not be able to provide lodging or transportation for the students enrolled in the program.

**Registration:** Class size is limited to 20 teachers, so teachers will be accommodated on the first come, first served basis. Local teachers from Orange County schools will receive strong preference. Applications from residents of other countries will not be considered. To register, download the registration form from our website at [www.chem.uci.edu/airuci](http://www.chem.uci.edu/airuci), fill it out, and mail it to the address specified on the form. Registration deadline is **June 1, 2009.**

**UCI Contacts**  
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