

## INTRODUCTION

The **2017 Environmental Science Education: Air Quality and Climate Workshop** at UCR will focus on educating credentialed high school and pre-service STEM teachers with the *pedagogy and techniques to integrate scientific contents related to air quality and climate in their classrooms.*

The workshop, funded by the National Science Foundation and co-sponsored by the UCR CaTEACH- Science Mathematics Institute (SMI), is led by Professor Roya Bahreini with the aim of *integrating knowledge from chemistry, physics, and mathematical sciences in problem solving and interpretation of issues in air quality and climate.* Participants who complete the workshop *will be provided with materials* necessary for transferring their knowledge into their classrooms.

During the academic year, Professor Bahreini and her research group will *visit local high schools* representing workshop attendees to *perform*

*demonstrations that build upon basic chemistry, physics, mathematics, and environmental sciences,* illustrating phenomena related to air quality and climate while her students will work one-on-one with students having difficulties with in-class assignments related to the demonstrations.



## ANTICIPATED OUTCOMES

Participants can expect to

- Learn about physical and chemical principles governing air quality and climate;
- Gain skills in applying knowledge from chemistry, physics, and mathematical sciences for problem solving and interpretation of issues in air quality and climate.

## ENVIRONMENTAL SCIENCE EDUCATION: AIR QUALITY AND CLIMATE WORKSHOP

### Dates:

July 11-14, 2017

### Time:

9:30 am- 3:00 pm (Instruction)

3:00 pm- 4:00 pm (Group Work)

*\*Snacks and Lunch included*

### Location:

UCR Sciences Laboratory I, Rm 301

### Eligible Applicants:

Credentialed high school science teachers

**\*\*Participation Stipend\*\***  
\$600 upon completion of the workshop

**APPLICATION- Please answer the following questions to assist the selection process:**

1. Is your baccalaureate/post-baccalaureate degree in science, math, or engineering?  
\_\_\_\_\_Yes \_\_\_\_\_No

Please indicate your subject area/ major \_\_\_\_\_

2. School site information: School name \_\_\_\_\_  
School district \_\_\_\_\_

3. What courses do you currently teach? \_\_\_\_\_

4. Are you planning to serve as an SMI Mentor Teacher for the 2015-2016 academic year?  
\_\_\_\_\_Yes \_\_\_\_\_No \_\_\_\_\_Not Sure

5. Indicate which type of teaching credential you hold:  
\_\_\_\_\_Preliminary Teaching Credential

\_\_\_\_\_Professional Clear Teaching Credential

6. Briefly describe your primary motivation to participate in this workshop:

7. Contact Information:

Name \_\_\_\_\_

e-mail \_\_\_\_\_

**Application Deadline:**

*Friday May 12, 2017*

To apply for this workshop, fill out and email the application form to Prof. Bahreini (Roya.Bahreini@ucr.edu ) by May 12, 2017.

**Questions:** Contact Prof. Bahreini (Roya.Bahreini@ucr.edu)