

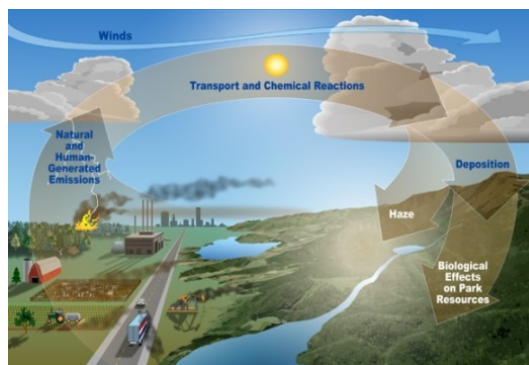
## INTRODUCTION

The **2019 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 9-12, 2019

**Time:**  
10:00 am- 4:00 pm (Instruction  
and Group Work)  
*\*Snacks and Lunch included*

**Location:**  
UCR Sciences Laboratory I, Rm  
217

**Eligible Applicants:**  
Credentialed high school science  
teachers

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



National Science Foundation  
WHERE DISCOVERIES BEGIN

**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 2018-2019 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 31, 2019*

To apply for this workshop, fill out and email the application form to Prof. Bahreini (Roya.Bahreini@ucr.edu ) by May 31, 2019.

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