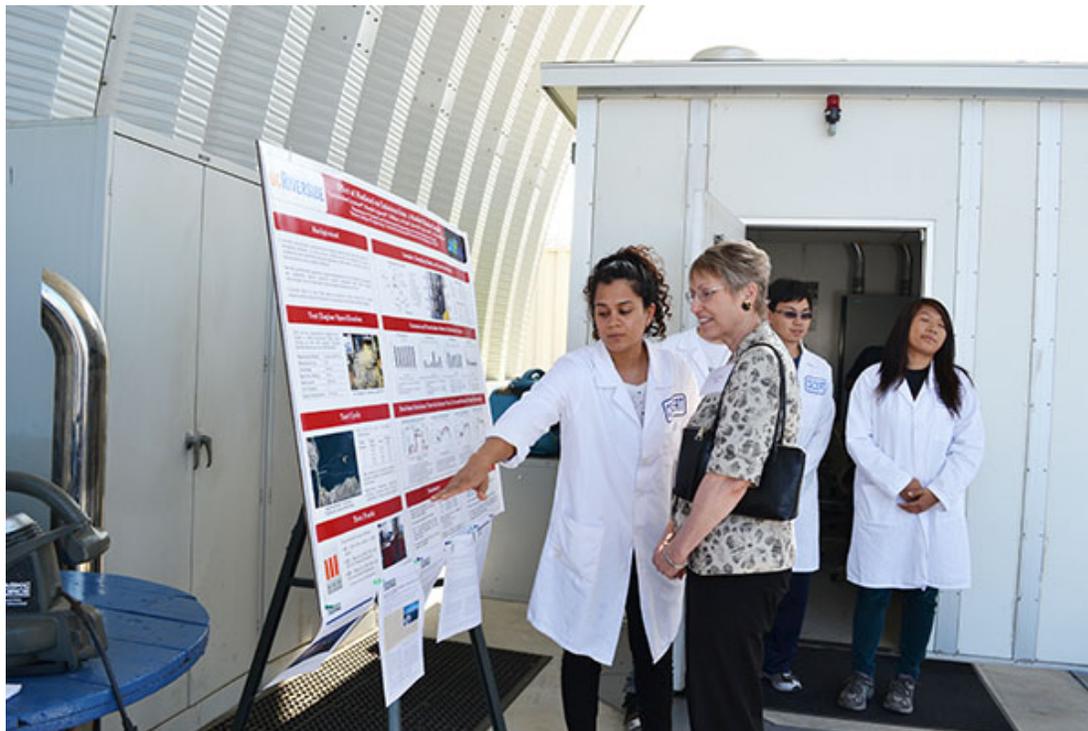


CE-CERT NEWSLETTER

UCR | College of Engineering- Center for
Environmental Research & Technology

1084 Columbia Avenue
Riverside, CA 92507
951-781-5791
certinfo@cert.ucr.edu



CARB Relocation Brings Major Research Growth Opportunities

The California Air Resources Board (CARB) voted 8-3 to relocate its Southern California testing and research facility from El Monte to UC Riverside to develop a “National and International Center for Air Pollution and Climate Change Research” and a world-class facility to support air quality and climate change research. This represents a \$366 million investment into the community and a gain of 400 knowledge-based jobs to the Inland Empire. CARB relocating to UCR allows for synergies between CARB’s scientific and technical mission, and the academic and scientific resources of the University of California, including CE-CERT. CE-CERT has contributed important research and technology development to the air quality and clean energy fields. UCR’s expertise includes emissions and air quality, health impacts of air pollution, climate change impacts and air quality co-benefits, sustainable transportation, and policy implications of emissions regulations.

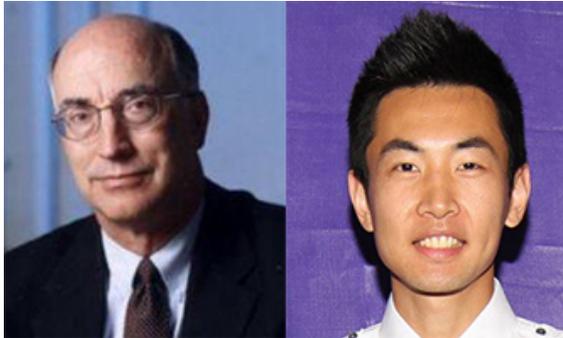
Over the next few years, CARB and UCR will pursue programs to build this research collaboration through internships, continuing education, and joint research programs.

[Read More >>](#)

Pictured above: Former UCR Graduate Student Poornima Dixit discusses her research with CARB Board Member, Sandra Berg.



1 MILLION DOLLAR RESEARCH AWARDS



Charles Wyman (left), Distinguished Professor in Chemical and Environmental Engineering and Charles Cai (right), Research Engineer and Adjunct Assistant Professor, received nearly \$1.3 million from the USDA's National Institute of Food and Agriculture (NIFA) and the Department of Energy (DOE) to help fund research on developing commercially-viable processes to create biofuels and chemicals from waste plant materials. The award will support a project that aims to convert poplar wood into ethanol and polyurethanes based on novel platforms for pretreatment and lignin polymer synthesis. [Read More >>](#)

Kelley Barsanti, Assistant Professor in Chemical and Environmental Engineering, was awarded two grants totaling nearly \$1 million to research the nighttime chemistry of biomass burning. Areas of study will include wildfires, agricultural burning and prescribed fires along with research on how to build and test the framework to integrate detailed chemical measurements, and predictive biomass burning models. [Read More >>](#)



Ph.D. GRADUATE HEADS TO SOUTH AFRICA

Mary Karacab has accepted a postdoctoral position at Georgia Tech to study biomass burning aerosol particles. Her first project, **ObseRvations of Aersols above CLouds and their intEractionS** (ORACLES), will take place in South Africa, where she will be studying the key processes that determine the climate impacts of African biomass burning aerosols. ORACLES is funded by NASA and is a multi-year investigation.



Mary is a Riverside native who recently completed her Bachelors of Science in Environmental Engineering at UC Riverside. In May of 2016, Mary received her Ph.D. in Chemical and Environmental Engineering, studying under Professor David Cocker of the Atmospheric Processes Laboratory at CE-CERT. Mary studied the effects of temperature on secondary organic aerosol formation and properties. Mary received the 2015-2016 Esther Hays Fellowship and also the 2013-2014 University of California Transportation Center Fellowship.

We congratulate Dr. Karacab and wish her the best in her future endeavors!

CONGRATULATIONS BCOE CLASS OF 2016!



2016-2017 CE-CERT Scholarship Winners

Ford Undergraduate Award - *Robert Espinoza*

"I am both incredibly grateful and appreciative of this award." Robert plans to use it toward living expenses so that he can devote more time to his research.

Esther Hays Graduate Award - *Yu Jiang*

"The most exciting part of working at CE-CERT is the application of the engineering principles I have learned in class. Here, I have the opportunity to help conduct measurements on engines from ships to alternatively-fueled trucks, an experience that I would not get anywhere else as a 3rd year graduate student."

Colin E. Hackett Engineering Research Award - *Partho Roy*

"This award will help me in conducting the preliminary study of the use of biogas as fuel for a natural gas vehicle. The money and security assured by the scholarship will allow me to dedicate most of my resources towards my thesis work."

William E. Pierson Graduate Award - Jiacheng Yang

"All of my CE-CERT advisors, Dr. Thomas Durbin, Dr. Kent Johnson, Dr. Georgios Karavalakis, Dr. David Cocker and Dr. Wayne Miller are really easy to talk to and really patient with me when I have questions. I am appreciative of their hard work in bringing the projects in for us to get hands-on experience on various aspects of research. Thank you to CE-CERT for being such a nice place to study, and thank you to the scholarship donors for allowing us to delve into our studies."

Congratulations to all our winners!

A special thank you to our donors for providing this annual support to full-time students at Bourns College of Engineering - Center for Environmental Research and Technology (CE-CERT).

[Read More >>](#)

MAKE A DIFFERENCE

The financial support from our donors is an important part of the Center's success. Please consider making a donation in support of CE-CERT in our mission to engage and educate our youth.

Please contact: Kathy Vang, (e) kathyv@cert.ucr.edu, (p) 951.781.5730



To unsubscribe please click [here](#)

Kathy Vang
1084 Columbia Ave., Riverside, CA, 92507