

BREATHE Affiliates

(partial list)

UCR School of Medicine (SOM)
College of Engineering Center for
Environmental Engineering and
Technology (CE-CERT)
Center for Conservation Biology
(CCB)
Environmental Dynamics and
GeoEcology (EDGE)

David Lo, SOM
Michael Allen, CCB
Emma Aronson, CCB
Roya Bahreini, Environmental
Sciences
Kelley Barsanti, CE-CERT
Monica Carson, SOM
David Cocker, CE-CERT
Mona Eskandari, Mechanical
Engineering
Marilyn Fogel, EDGE
Sydney Glassman Microbiology and
Plant Pathology
Erica Heinrich, SOM
Cesunica Ivey, CE-CERT
Georgios Karavalakis, CE-CERT
Philipp Nicolas Lehmann, History
Ying-Hsuan Lin, Environmental
Sciences
Keith Kiyake, Ethnic Studies
Meera Nair, SOM
Tara Nordgren, SOM
William Porter, Environmental
Sciences



BREATHE

Bridging Regional Ecology,
Aerosolized Toxins, and
Health Effects

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BREATHE

2nd Annual Workshop
May 17, 2019

SOM Edu G650



UCR | School of
Medicine
BREATHE Center



Welcome to our 2nd Annual BREATHE Workshop

We have come quite a way from our origins as a cluster proposal! We now have recently completed our cluster hiring, with a few more hires than originally approved. Several collaborations are now in progress; two papers from these collaborations already published, and more are already in the works. We were asked to testify before the State Assembly Water, Parks and Wildlife Committee regarding the Salton Sea Management Plan. Several grant applications have been submitted for research originating in BREATHE projects; we're learning from some and optimistic about the prospects of others. Meanwhile, the scope of our ongoing research projects is expanding.

One major focus has been on the Coachella Valley as a living laboratory. There are studies on transport of aerosol particulates, the Salton Sea as an unstable ecosystem, and of course, the health impacts, especially in the context of health and socioeconomic disparities.

AGENDA UCR SOM G650

- 11:00am Welcome, Introductions
- 11:05am **Ann Cheney, Luanne Carlson**
UCR School of Medicine
Center for Healthy Communities
Asthma in the Coachella Valley
- 11:20am **Ying-Hsuan Lin**
Environmental Sciences
Electrophilic and oxidative potential of atmospheric organic aerosols
- 11:35am LUNCH served
- 11:45am **Sunni Ivey**
Chemical and Environmental Engineering
Personal PM_{2.5} exposure in the Inland Empire
- 12:00pm **Erica Heinrich**
Biomedical Sciences, SOM
Individual variation in the control of breathing and its impact on health
- 12:15pm Roundtable Discussion:
Coachella Valley health



AGENDA UCR SOM G650

- 12:45pm BREAK
- 1:00pm **Sydney Glassman**
Microbiology and Plant Pathology
Microbial response to California wildfires
- 1:15pm **Roya Bahreini**
Environmental Sciences
Salton Sea dust characterization
- 1:30pm **Mona Eskandari**
Mechanical Engineering
Mechanics of the lung
- 1:45pm **Charlie Zender, UCI**
Air quality reduction due to the shrinking Salton Sea
- 2:00pm Roundtable Discussion:
Dust and cocci sampling methodologies
- 2:30pm BREAK
- 3:00pm Plenary – G650
Morgan Gorris, UC Irvine
Using climate and environmental data to understand Valley Fever disease dynamics
- 4:00pm ADJOURN

Thanks to Will Porter and Emma Aronson for organizing this workshop!