

Temple Bat Yahm's Adult Education and Social Action Committees present

SCOTT A. EPSTEIN, PHD

AIRUCI POSTDOCTORAL SCHOLAR



TUESDAY, JANUARY 22, 2013

7:00PM

Temple Bat Yahm Morgan Chapel

1011 Camelback Street, Newport Beach, CA 92660

TOPIC: "AIR QUALITY IN SOUTHERN CALIFORNIA: SMOG, OZONE AND CLIMATE CHANGE"

Over the past few decades, air quality in Southern California has improved significantly but is still among the worst in the nation. Scott will discuss the composition, sources, and health effects of the air pollution that we breathe. Within a historical framework, he will illustrate the policies that have led to a drastic improvement in our air quality and how you can help improve both regional and indoor air quality.

Worldwide legislation in the 1980s that regulated the production of chemicals that destroy the ozone layer (critical for biological processes and the prevention of skin cancer) has been one of the most successful environmental accomplishments of modern times. Dr. Epstein will use this success story to illustrate how an environmental problem identified with laboratory experiments, field measurements, and atmospheric models can be solved with effective policies and engineering improvements.

While we should use the history of ozone layer preservation as a guide, preventing significant climate change resulting from the emission of greenhouse gasses is a far more difficult problem. Dr. Epstein will explain how greenhouse gasses and atmospheric particles can affect the earth's climate and what other countries are doing to mitigate these serious effects. He will also discuss easy ways to reduce your carbon footprint.

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Dr. Scott Epstein has a PhD in Chemical Engineering from Carnegie Mellon University in Pittsburgh, PA. As a researcher in the Center for Atmospheric Particle Studies, his dissertation focused on the formation and evolution of atmospheric particle pollution. Dr. Epstein is currently a Postdoctoral Scholar at the AirUCI Institute in the Department of Chemistry at the University of California, Irvine. His current research investigates how sunlight contributes to the production and evolution of air pollution. In addition to his research, Scott is currently a nominated member of the *Laguna Beach Environmental Sustainability Committee*, which was created to advise the city council on environmental policy decisions.

To RSVP for this program, please contact Stephanie Epstein,
Membership and Program Coordinator, at 949.644.1999 ext. 119 or
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