

Meeting Rates

HOTEL NOT INCLUDED. For U.S. Government rates, please contact Robert Shavers at HEI.

Full Conference

Sunday Through Tuesday \$625

Includes all meals and breaks, Sunday lunch through Tuesday lunch, except Monday dinner. Includes the Sunday morning workshop.

Single Day

Sunday (Workshop only) \$110

Includes continental breakfast.

Sunday (Entire day) \$265

Includes lunch, breaks, reception, and dinner.

Monday \$265

Includes breakfast, lunch, and breaks.

Tuesday \$265

Includes breakfast, lunch, and breaks.

Further Information

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Registration and Program Updates

Obtain registration materials and program information online at www.healtheffects.org/annual.htm. The posted program and schedule are updated regularly.

Accommodations

HEI special group rate is \$210.00 plus tax, for single or double room. Please book your room by **April 11, 2016** online at www.healtheffects.org/annual.htm or call **The Brown Palace Hotel** at **1.800.321.2599** and mention Health Effects Institute to obtain the group rate.

HEI Annual Conference 2016



Health Effects Institute
101 Federal Street, Suite 500
Boston, MA 02110-1817, USA

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HEALTH EFFECTS INSTITUTE

ANNUAL CONFERENCE

May 1–3, 2016

The Brown Palace Hotel
Denver, Colorado



The Health Effects Institute is an independent, non-profit research organization that, for 35 years, has provided decision makers with high-quality, impartial, and relevant science on the health effects of air pollution. Its core support is provided jointly by the U.S. Environmental Protection Agency and the motor vehicle industry; additional support is contributed by a range of domestic and international industries, governments, foundations, and development agencies.



HEALTH EFFECTS INSTITUTE Annual Conference 2016

SUNDAY, MAY 1

9–11 AM **Workshop: Demystifying Causal Inference in Air Pollution Epidemiology**

Leaders: Corwin Zigler and Francesca Dominici, Harvard T.H. Chan School of Public Health

Causal modeling techniques have been proposed as alternatives to conventional epidemiological methods for making inferences about the relationships between air pollution exposures and public health outcomes. This workshop aims to provide attendees with a basic introduction to causal modeling methods and, drawing on details from recent HEI-funded research, with useful insights into the conceptual benefits and practical challenges in their application and interpretation. This preconference workshop is open to all conference attendees.

11:30 AM **Lunch**

1:00 PM **The Heat Is On: Climate, Air Pollution, and Health**

Chairs: Warren Washington, National Center for Atmospheric Research; and Jana Milford, University of Colorado–Boulder

Air pollution and climate are intricately linked. Changes in global climate may alter temperature, precipitation, wildfire, and dust storm patterns, all of which may affect air pollution and public health. Correspondingly, air pollutant levels may affect climate. Regulations aimed at reducing specific air pollutants could either work in concert with or counteract efforts to reduce potential climate-forcing agents. This session will explore recent developments in climate research, including health effects from heat, droughts, and forest fires, and how air pollution and climate interact.

4:00 PM **Poster Session I**

6:00 PM **Opening Reception and Dinner**

8:00 PM **Keynote speaker (TBA)**

MONDAY, MAY 2

7:00 AM **Breakfast**

8:30 AM **HEI Update**

Chairs: David Eaton, University of Washington–Seattle; and James Merchant, University of Iowa

HEI will present progress of its research programs and publications. Highlights will include updates of HEI's recent work on diesel exhaust and plans for new research on 21st century oil and gas development. We will also introduce the recipient of the 2015 Walter A. Rosenblith New Investigator Award.

10:30 AM **How Low Should We Go? New Research on Low-Level Air Pollution**

Chairs: Amy Herring, University of North Carolina–Chapel Hill; and Roger Peng, Johns Hopkins Bloomberg School of Public Health

Although levels are declining in high-income regions, epidemiological studies continue to report associations of air pollution with adverse health effects in the general population even at levels below current air quality standards, providing a continuing impetus for lower standards. This session will review those epidemiological studies, highlight HEI's new efforts on this topic, and discuss critical study design considerations and challenges that the studies will need to confront.

12:30 PM **Lunch**

1:45 PM **Poster Session II**

3:15 PM **The Global Burden of Disease from Air Pollution and Its Major Sources**

Chairs: Michal Krzyzanowski, King's College London; and Terry Keating, U.S. Environmental Protection Agency

The Global Burden of Disease (GBD) 2013 study estimated that exposure to fine particulate air pollution contributed to some 2.9 million premature deaths in 2013, with nearly two-thirds of those deaths occurring in China, India, and other developing Asian countries. This session will present the most recent estimates of the burden due to air pollution in 2013 and trends from 1990 to 2013, as well as new estimates of current and future projected burden of disease from coal-burning and other major pollutant sources in China and India from HEI's GBD MAPS project.

5:30 PM **Free Evening**

TUESDAY, MAY 3

7:00 AM **Breakfast**

8:30 AM **Ozone and Cardiovascular Effects: Where Is “MOSES” Leading Us?**

Chairs: David Christiani, Harvard T.H. Chan School of Public Health; and Lianne Sheppard, University of Washington–Seattle

Many areas struggle to meet the ozone standard, and changing climate and emissions profiles for ozone precursors paint a complicated picture. HEI recently completed the Multicenter Ozone Study in Elderly Subjects (MOSES) of cardiovascular effects at low exposures of ozone. We will discuss the science behind the 2015 ozone regulations in the United States and the current knowledge base linking ozone to cardiovascular and respiratory effects, based on the results of MOSES and other human clinical studies. The session will conclude with comments from the MOSES Review Panel and the public.

11:30 AM **Lunch**

12:30 PM **Traffic and Health: Air Pollution, Noise, and Interactions with SES**

Chairs: Barbara Hoffmann, University of Düsseldorf, Germany; and Jeffrey Brook, Environment Canada

This session will explore important factors related to the design and interpretation of health studies of traffic-related air pollution. It is intended to build on the findings of HEI's previous work and to lay the groundwork for upcoming deliberations on research needs in this area. Speakers will discuss differences in traffic and vehicle mixes around the world and the complex interactions between socioeconomic status (SES) and traffic noise in health studies of traffic-related air pollution.

2:30 PM **Conference Adjourns**

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Denver, Colorado

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www.healtheffects.org/annual.htm

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Note: This is a preliminary program. The timing and order of the sessions are subject to change.