

Meeting Rates

HOTEL NOT INCLUDED. For U.S. Government and student rates, please contact Robert Shavers at HEI. Student rates are available to full-time, currently enrolled students (please bring student ID to the Conference to collect Registration packet).

Full Conference

Sunday Through Tuesday \$695

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

Single Day

Sunday \$290

Includes lunch, breaks, reception, and dinner.

Monday \$290

Includes breakfast, lunch, and breaks.

Tuesday \$290

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-conference. The posted program and schedule are updated regularly.

Accommodations

HEI special group rate is \$215.00 plus tax, for single or double room. Please book your room by **March 29, 2017** online at www.healtheffects.org/annual-conference or call the **Central Reservations** office at **+1-866-837-4210** and mention the Health Effects Institute to obtain the group rate.

HEI Annual Conference 2017



Health Effects Institute
75 Federal Street, Suite 1400
Boston, MA 02110-1817, USA

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HEALTH EFFECTS INSTITUTE

ANNUAL CONFERENCE
April 30–May 2, 2017
The Westin Alexandria
Alexandria, Virginia



The Health Effects Institute is an independent, non-profit research organization that, for 37 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. An overview of HEI, information on its current research program, and all published HEI reports are available for downloading, free of charge, at www.healtheffects.org/publications.



HEALTH EFFECTS INSTITUTE Annual Conference 2017

SUNDAY, APRIL 30

11:30 AM Lunch

1:00 PM Where Are Vehicles and Fuels Headed in the 21st Century?

Chairs: David Foster, University of Wisconsin, and Daniel Greenbaum, Health Effects Institute

Transformations are under way in vehicles and fuels in the United States and around the world, prompted in part by current regulatory mandates to reduce greenhouse gas emissions. In the near term — through 2025–2030 — this will mean much greater use of fuel-efficient gasoline direct injection (GDI) engines, “lower carbon” fuels, and many other approaches. Over the longer term — 2025 and beyond — increasingly wider use of electric-drive vehicles has the potential for broad shifts in vehicles and mobility. This session will explore what we know about advantages and challenges of the main technology and fuel options, and potential implications for air quality and public health.

4:15 PM Poster Session 1

6:00 PM Reception

7:00 PM Dinner

April 30–May 2, 2017

The Westin

Alexandria Hotel

Alexandria, Virginia

Health Effects Institute

[www.healtheffects.org/
annual-conference](http://www.healtheffects.org/annual-conference)

MONDAY, MAY 1

7:00 AM Breakfast

8:30 AM Making Sense of Sensor Data: Promises and Pitfalls

Chairs: Jeff Brook, Environment Canada and University of Toronto, and Lianne Sheppard, University of Washington–Seattle

Air pollution sensors and smartphone apps are revolutionizing the way we can monitor environmental exposures and health outcomes in community studies. These novel technologies are inexpensive, easy to use, and portable, and can provide high temporal and spatial resolution; on the other hand, there are questions on data quality, analysis, interpretation, and communication. This session will discuss the current state of the art of sensor technologies, the challenges of their wider use (such as their application in “citizen science”), and how they may advance exposure assessment for health studies.

11:00 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 a presentation of a recently completed accountability study in the Southeastern United States and plans for new research on the effects of traffic-related air pollution and unconventional oil and gas development. We will also introduce the recipient of the 2016 Walter A. Rosenblith New Investigator Award.

12:30 PM Lunch

1:30 PM Poster Session 2

3:15 PM A New Vision for Accountability Research?

Chairs: Francesca Dominici, Harvard T.H. Chan School of Public Health, and Jennifer Peel, Colorado State University

There is a long-standing interest in evaluating the effectiveness of air quality interventions in reducing air pollution and improving public health. To date, “accountability” studies have had varying degrees of success in relating regulatory actions to outcomes. To encourage potential new research in this area, this session hopes to bring fresh insights for methods and approaches in accountability research, taking into account the challenges encountered.

5:00 PM Free Evening

TUESDAY, MAY 2

7:00 AM Breakfast

8:30 AM The Double Life of NO₂ — Ozone Precursor and Ambient Pollutant

Chairs: Jana Milford, University of Colorado–Boulder, and Bert Brunekreef, University of Utrecht

The oxidant gas nitrogen dioxide (NO₂), a regulated criteria pollutant, is the indicator for the larger group of oxides of nitrogen (NO_x) emitted from combustion sources. NO_x react with volatile organic compounds in sunlight to form ozone (O₃). This session will examine two separate scientific debates that have implications for future regulations of NO_x and NO₂: one related to the accuracy of NO_x emission inventories and the challenge in modeling the formation of O₃ in the troposphere, and the other related to the question of whether NO₂ has independent health effects or is more likely an indicator of the broader traffic mixture.

11:30 AM Lunch

12:30 PM PM Matters — What More Do We Need to Know?

Chairs: Barbara Hoffmann, University of Düsseldorf, Germany, and Mark Frampton, University of Rochester Medical Center

The United States and other countries have made progress in reducing levels of ambient particulate matter (PM), thanks to regulation and the technological innovation in the automotive and other industries. Further progress is expected when additional rules are fully implemented by 2030. In this session, experts from various disciplines will share perspectives on where PM science is, and identify potential key knowledge gaps where research may provide further insight and leverage for future decisions about the PM standard.

2:45 PM Conference Adjourns

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