

## Meeting Rates

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

### Full Conference

**Sunday through Tuesday** \$800

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

### Single Day

**Sunday** \$350

Includes lunch, breaks, reception, and dinner

**Monday** \$350

Includes breakfast, lunch, and breaks

**Tuesday** \$350

Includes breakfast, lunch, and breaks

### Students and Postdocs

Find information about the **Student and Postdoc Travel Award** at [www.healtheffects.org/annual-conference](http://www.healtheffects.org/annual-conference). Application deadline is **January 22, 2020**.

Student and Postdoc rates are available to full-time, currently enrolled students: \$300 for the full conference and \$100 for a single day (includes reception, breaks, and meals except Sunday dinner). Must be full-time and currently enrolled. Bring ID to the conference to collect your registration package.

### Further Information

Robert Shavers, Health Effects Institute  
75 Federal Street, Suite 1400, Boston, MA 02110 USA  
Telephone +1-617-488-2308 • Fax +1-617-488-2335  
[rshavers@healtheffects.org](mailto:rshavers@healtheffects.org)

### Registration and Program Updates

Obtain registration materials and program information online at [www.healtheffects.org/annual-conference](http://www.healtheffects.org/annual-conference). The posted program and schedule are updated regularly.

### Accommodations

HEI's special group rate at the Renaissance Boston Waterfront Hotel is \$279 plus tax, for a single or double room. Please book your room by **March 12, 2020**, online at [www.healtheffects.org/annual-conference](http://www.healtheffects.org/annual-conference). Guests can also call (877) 901-6632 and mention the **HEI Annual Conference** to obtain the group rate.

# HEALTH EFFECTS INSTITUTE

## ANNUAL CONFERENCE

April 5–7, 2020

Renaissance Boston  
Waterfront Hotel  
Boston, Massachusetts



*The Health Effects Institute is an independent, non-profit research organization that, for 40 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](http://www.healtheffects.org).*

## HEI Annual Conference 2020



Health Effects Institute

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

**PLEASE POST**



# HEALTH EFFECTS INSTITUTE Annual Conference 2020

## SUNDAY, APRIL 5

**10:00 AM Registration Opens**

**1:00 PM The Big Deal about Big Data and Accountability Research**

*Chairs: Jennifer Peel, Colorado State University, and Kiros Berhane, Columbia University*

Accountability, or evaluating the effectiveness of interventions to improve air quality and public health, remains a topic of high interest. Although there have been some successes, showing effectiveness — particularly at increasingly lower air pollution levels — is challenging. This session will track recent progress, including novel statistical approaches, big data, and data observatories. Speakers will discuss the value of accountability evidence for testing causality, and explore what approaches are needed for future research.

**4:30 PM Poster Session I**

**6:00 PM Opening Reception, Dinner, and Keynote Speaker (TBD)**

April 5–7, 2020

Renaissance Boston

Waterfront Hotel

Boston, Massachusetts

**Health Effects Institute**

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

## MONDAY, APRIL 6

**8:30 AM Brain Health and Air Pollution**

*Chairs: Barbara Hoffmann, University of Düsseldorf, Germany, and David Savitz, Brown University*

Globally, neurological disorders represent the second leading cause of death. While increasing evidence has emerged demonstrating an association between air pollution exposure and brain health throughout the life course, important research gaps remain. This session will provide an overview of the relationship between air pollution and neurological effects in childhood and adolescence, and neurodegenerative disease in adulthood, as well as the physiological impacts on the brain that have been observed recently using neuroimaging techniques.

**11:00 AM History and Future at HEI**

*Chairs: David Savitz, Brown University, and Jim Merchant, University of Iowa*

This session will look back at 40 years of HEI history and ahead at the next steps in implementing the new Strategic Plan 2020–2025. We will summarize HEI's new research on accountability, exposure assessment, global health, and energy, and other new research initiatives.

**1:30 PM Poster Session 2**

**3:00 PM Inequalities of Air Pollution Exposure and Associated Health Effects in the U.S.**

*Chairs: Jana Milford, University of Colorado, and Michael Jerrett, University of California, Los Angeles*

A growing body of research has examined inequitable distribution of air pollution exposure across racial and socioeconomic groups in the United States. Questions remain about which population groups are inequitably exposed and likely to benefit from air quality improvements. This session will provide an overview of social determinants of health and exposure in the United States, air pollution inequality research to date, and applications in epidemiological research and policy decisions.

**5:00 PM Free Evening**

## TUESDAY, APRIL 7

**8:30 AM Particle Characteristics and Associated Health Effects: Then and Now**

*Chairs: Frank Kelly, King's College London, and Jeffrey Brook, University of Toronto*

Evidence for the health effects of particulate matter (PM) has led regulatory agencies to establish mass-based ambient air quality standards for PM. Despite significant earlier efforts, it remains unclear whether some chemical constituents or physical characteristics of the PM mixture are of greater public health concern than others. This session will discuss the state of the science related to PM characteristics, including key open questions related to whether regulations targeting specific sources or components of PM might protect public health more effectively than continuing to target PM mass as a whole.

**12:30 PM Understanding Ultrafine Particles and Health: How Can We Make Progress?**

*Chairs: Allen Robinson, Carnegie Mellon University, and David Foster, University of Wisconsin, Madison*

The contribution of ultrafine particle (UFP) exposure to health effects of the air pollutant mixture is an unresolved issue in air pollution research. A number of recent reviews of the UFP literature continue to point to many of the same challenges in measurement, exposure assessment, and epidemiological studies that were identified by HEI's review in 2013. This session will summarize those challenges, discuss progress, and identify issues going forward that need to be resolved by targeted research.

**2:30 PM Conference Adjourns**

---

## PLEASE DISTRIBUTE

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