



# Publications Related to Conference Topics 2017

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## SUNDAY AFTERNOON

### WHERE ARE VEHICLES AND FUELS HEADED IN THE 21ST CENTURY?

Advanced Collaborative Emissions Study (ACES). 2015. [Advanced Collaborative Emissions Study \(ACES\): Lifetime Cancer and Non-Cancer Assessment in Rats Exposed to New-Technology Diesel Exhaust](#). Research Report 184. Boston, MA:Health Effects Institute.

Burbacher T, Grant K, Shen D, Damian D, Ellis S, Liberato N. 1999. Part II. Developmental effects in infants exposed prenatally to methanol. In: [Reproductive and Offspring Developmental Effects Following Maternal Inhalation Exposure to Methanol in Nonhuman Primates](#). Research Report 89. Cambridge, MA:Health Effects Institute.

Burbacher T, Shen D, Grant K, Sheppard L, Damian D, Ellis S, et al. 1999. Part I. Methanol disposition and reproductive toxicity in adult females. In: [Reproductive and Offspring Developmental Effects Following Maternal Inhalation Exposure to Methanol in Nonhuman Primates](#). Research Report 89. Cambridge, MA:Health Effects Institute.

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Health Effects Institute. 2011. [The Future of Vehicle Fuels and Technologies: Anticipating Health Benefits and Challenges](#). Communication 16. Boston, MA:Health Effects Institute.

Health Effects Institute. 2015. [Executive Summary. The Advanced Collaborative Emissions Study \(ACES\)](#). Boston, MA:Health Effects Institute.

HEI Oxygenates Evaluation Committee. 1996. [The Potential Health Effects of Oxygenates Added to Gasoline: A Review of the Current Literature](#). Special Report. Cambridge, MA:Health Effects Institute.

Johnston MV, Klems JP, Zordan CA, Pennington MR, Smith JN. 2013. [Selective Detection and Characterization of Nanoparticles from Motor Vehicles](#). Research Report 173. Boston, MA:Health Effects Institute.

Mauderly JL, McDonald JD. 2012. [Advanced Collaborative Emissions Study \(ACES\). Phase 3A: Characterization of U.S. 2007-Compliant Diesel Engine and Exposure System Operation](#). Communication 17. Boston, MA:Health Effects Institute.

Yokel RA, Crossgrove JS. 2004. [Manganese Toxicokinetics at the Blood-Brain Barrier](#). Research Report 119. Boston, MA:Health Effects Institute.

## MONDAY 1<sup>ST</sup> MORNING SESSION

### MAKING SENSE OF SENSOR DATA: PROMISES AND PITFALLS

Batterman S, Su F-C, Li S, Mukherjee B, Jia C. 2014. [Personal Exposure to Mixtures of Volatile Organic Compounds: Modeling and Further Analysis of the RIOPA Data](#). Research Report 181. Boston, MA:Health Effects Institute.

Cohen BS, Heikkinen MS, Hazi Y, Gao H, Peters P, Lippman M. 2004. [Field Evaluation of Nanofilm Detectors for Measuring Acidic Particles in Indoor and Outdoor Air](#). Research Report 121. Boston, MA:Health Effects Institute.

Geyh A, Hering S, Kreisberg N, John W. 2004. [Evaluation of a Personal and Microenvironmental Aerosol Speciation Sampler \(PMASS\)](#). Research Report 122. Boston, MA:Health Effects Institute.

Hering S, Kreisberg N, John W. 2003. [A Personal Particle Speciation Sampler](#). Research Report 114. Boston, MA:Health Effects Institute.

Ryan PH, Brokamp C, Fan Z-H, Rao MB. 2015. [Analysis of Personal and Home Characteristics Associated with the Elemental Composition of PM<sub>2.5</sub> in Indoor, Outdoor, and Personal Air in the RIOPA Study](#). Research Report 185. Boston, MA:Health Effects Institute.

Schauer JJ, Majestic BJ, Sheesley RJ, Shafer MM, DeMinter JT, Mieritz M. 2010. [Improved Source Apportionment and Speciation of Low-Volume Particulate Matter Samples](#). Research Report 153. Boston, MA:Health Effects Institute.

Turpin BJ, Weisel CP, Morandi M, Colome S, Stock T, Eisenreich S, et al. 2007. [Part II. Analyses of concentrations of particulate matter species. In: Relationships of Indoor, Outdoor, and Personal Air \(RIOPA\)](#). Research Report 130. Boston, MA:Health Effects Institute.

Weisel CP, Zhang J, Turpin B, Morandi MT, Colome S, Stock TH, et al. 2005. [Part I. Collection methods and descriptive analyses. In: Relationships of Indoor, Outdoor, and Personal Air \(RIOPA\)](#). Research Report 130. Boston, MA:Health Effects Institute.

## MONDAY 2<sup>ND</sup> MORNING SESSION

### HEI UPDATE

GBD MAPS Working Group. 2016. [Burden of Disease Attributable to Coal-Burning and Other Major Sources of Air Pollution in China](#). Special Report 20. Boston, MA:Health Effects Institute. (Online only.)

[HEI Annual Report 2016: Trusted Science for Decisions](#)

HEI Special Scientific Committee on Unconventional Oil and Gas Development in the Appalachian Basin. 2015. [Strategic Research Agenda on the Potential Impacts of 21st Century Oil and Natural Gas Development in the Appalachian Region and Beyond](#). Boston, MA:Health Effects Institute. (Online only.)

## MONDAY AFTERNOON

### A NEW VISION FOR ACCOUNTABILITY RESEARCH?

Dockery DW, Rich DQ, Goodman PG, Clancy L, Ohman-Strickland P, George P, et al. 2013. [Effect of Air Pollution Control on Mortality and Hospital Admissions in Ireland](#). Research Report 176. Boston, MA:Health Effects Institute.

Gilliland F, Avol E, McConnell R, Berhane K, Gauderman WJ, Lurmann FW, et al. 2017. [The Effects of Policy-Driven Air Quality Improvements on Children's Respiratory Health](#). Research Report 190. Boston, MA:Health Effects Institute.

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HEI Accountability Working Group. 2003. [Assessing Health Impact of Air Quality Regulations: Concepts and Methods for Accountability Research](#). Communication 11. Boston, MA:Health Effects Institute.

Kelly F, Anderson HR, Armstrong B, Atkinson R, Barratt B, Beevers S, et al. 2011. [The Impact of the Congestion Charging Scheme on Air Quality in London](#). Research Report 155. Boston, MA:Health Effects Institute.

Kelly F, Armstrong B, Atkinson R, Anderson HR, Barratt B, Beevers S, et al. 2011. [The London Low Emission Zone Baseline Study](#). Research Report 163. Boston, MA:Health Effects Institute.

Morgenstern RD, Harrington W, Shih J-S, Bell ML. 2012. [Accountability Analysis of Title IV Phase 2 of the 1990 Clean Air Act Amendments](#). Research Report 168. Boston, MA:Health Effects Institute.

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Peel JL, Klein M, W. Flanders WD, Mulholland JA, Tolbert PE. 2010. [Impact of Improved Air Quality During the 1996 Summer Olympic Games in Atlanta on Multiple Cardiovascular and Respiratory Outcomes](#). Research Report 148. Boston, MA:Health Effects Institute.

Peters A, Breitner S, Cyrys J, Stölzel M, Pitz M, Wölke G, et al. 2009. [The Influence of Improved Air Quality on Mortality Risks in Erfurt, Germany](#). Research Report 137. Boston, MA:Health Effects Institute.

van Erp AM, Cohen AJ. 2009. [HEI's Research Program on the Impact of Actions to Improve Air Quality: Interim Evaluation and Future Directions](#). Communication 14. Boston, MA:Health Effects Institute.

Wong C-M, Rabl A, Thach TQ, Chau YK, Chan KP, Cowling BJ, et al. 2012. [Impact of the 1990 Hong Kong Legislation for Restriction on Sulfur Content in Fuel](#). HEI Research Report 170. Boston, MA:Health Effects Institute.

Zhang J, Zhu T, Kipen H, Wang G, Huang W, Rich D, et al. 2013. [Cardiorespiratory Biomarker Responses in Healthy Young Adults to Drastic Air Quality Changes Surrounding the 2008 Beijing Olympics](#). Research Report 174. Boston, MA:Health Effects Institute.

Zigler CM, Kim C, Choirat C, Hansen JB, Wang Y, Hund L, et al. 2016. [Causal Inference Methods for Estimating Long-Term Health Effects of Air Quality Regulations](#). Research Report 187. Boston, MA:Health Effects Institute.

## TUESDAY MORNING

### THE DOUBLE LIFE OF NO<sub>2</sub>: OZONE PRECURSOR AND AMBIENT POLLUTANT

Advanced Collaborative Emissions Study (ACES). 2015. [Advanced Collaborative Emissions Study \(ACES\): Lifetime Cancer and Non-Cancer Assessment in Rats Exposed to New-Technology Diesel Exhaust](#). Research Report 184. Boston, MA:Health Effects Institute.

Brunekreef B, Beelen R, Hoek G, Schouten L, Bausch-Goldbohm S, Fischer P, et al. 2009. [Effects of Long-Term Exposure to Traffic-Related Air Pollution on Respiratory and Cardiovascular Mortality in the Netherlands: The NLCS-AIR Study](#). Research Report 139. Boston, MA:Health Effects Institute.

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HEI Panel on the Health Effects of Traffic-Related Air Pollution. 2010. [Traffic-Related Air Pollution: A Critical Review of the Literature on Emissions, Exposure, and Health Effects](#). Special Report 17. Boston, MA:Health Effects Institute.

Koutrakis P, Suh HH, Sarnat JA, Brown KW, Coull BA, Schwartz J. 2005. [Characterization of Particulate and Gas Exposures of Sensitive Subpopulations Living in Baltimore and Boston](#). Research Report 131. Boston, MA:Health Effects Institute.

Mercer RR. 1999. [Morphometric Analysis of Alveolar Responses of F344 Rats to Subchronic Inhalation of Nitric Oxide](#). Research Report 88. Cambridge, MA:Health Effects Institute.

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Spengler JD, Schwab M, McDermott A, Lambert WE, Samet JM. 1996. [Part IV. Effects of housing and meteorologic factors on indoor nitrogen dioxide concentrations. In: Nitrogen Dioxide and Respiratory Illness in Children](#). Research Report 58. Cambridge, MA:Health Effects Institute.

## TUESDAY AFTERNOON

### PM MATTERS: WHAT MORE DO WE NEED TO KNOW?

Coull BA, Bobb JF, Wellenius GA, Kioumourtzoglou M-A, Mittleman MA, Koutrakis P, et al. 2015. [Part 1. Statistical Learning Methods for the Effects of Multiple Air Pollution Constituents. In: Development of Statistical Methods for Multipollutant Research](#). Research Report 183. Boston, MA:Health Effects Institute.

GBD MAPS Working Group. 2016. [Burden of Disease Attributable to Coal-Burning and Other Major Sources of Air Pollution in China](#). Special Report 20. Boston, MA:Health Effects Institute.

HEI Review Panel on Ultrafine Particles. 2013. [Understanding the Health Effects of Ambient Ultrafine Particles](#). HEI Perspectives 3. Boston, MA:Health Effects Institute.

- Kan H, Chen B, Zhao N, London SJ, Song G, Chen G, et al. 2010. [Part 1. A time-series study of ambient air pollution and daily mortality in Shanghai, China. In: Public Health and Air Pollution in Asia \(PAPA\): Coordinated Studies of Short-Term Exposure to Air Pollution and Daily Mortality in Four Cities.](#) Research Report 154. Boston, MA:Health Effects Institute.
- Katsouyanni K, Samet J, Anderson HR, Atkinson R, Le Tertre A, Medina S, et al. 2009. [Air Pollution and Health: A European and North American Approach \(APHENA\).](#) Research Report 142. Boston, MA:Health Effects Institute.
- Krewski D, Jerrett M, Burnett RT, Ma R, Hughes E, Shi Y, et al. 2009. [Extended Follow-Up and Spatial Analysis of the American Cancer Society Study Linking Particulate Air Pollution and Mortality.](#) Research Report 140. Boston, MA:Health Effects Institute.
- Lippmann M, Chen L-C, Gordon T, Ito K, Thurston GD. 2013. [National Particle Component Toxicity \(NPACT\) Initiative: Integrated Epidemiologic and Toxicologic Studies of the Health Effects of Particulate Matter Components.](#) Research Report 177. Boston, MA:Health Effects Institute.
- Molitor J, Coker E, Jerrett M, Ritz B, Li A. 2016. [Part 3. Modeling of Multipollutant Profiles and Spatially Varying Health Effects with Applications to Indicators of Adverse Birth Outcomes. In: Development of Statistical Methods for Multipollutant Research.](#) Research Report 183. Boston, MA:Health Effects Institute.
- Park ES, Symanski E, Han D, Spiegelman C. 2015. [Part 2. Development of Enhanced Statistical Methods for Assessing Health Effects Associated with an Unknown Number of Major Sources of Multiple Air Pollutants. In: Development of Statistical Methods for Multipollutant Research.](#) Research Report 183. Boston, MA:Health Effects Institute.
- [Public Health and Air Pollution in Asia \(PAPA\): Coordinated Studies of Short-Term Exposure to Air Pollution and Daily Mortality in Two Indian Cities.](#) Research Report 157. Health Effects Institute, Boston, MA.
- Qian Z, Zhang B, Liang S, Wang J, Yang S, Hu K, et al. 2016. [Ambient Air Pollution and Adverse Pregnancy Outcomes in Wuhan, China.](#) Research Report 189. Boston, MA:Health Effects Institute.
- Rich DQ, Peters A, Schneider A, Zareba W, Breitner S, Oakes D, et al. 2016. [Ambient and Controlled Particle Exposures as Triggers for Acute ECG Changes.](#) Research Report 186. Boston, MA:Health Effects Institute.
- Vedal S, Campen MJ, McDonald JD, Kaufman JD, Larson TV, Sampson PD, Sheppard L, Simpson CD, Szpiro AA. 2013. [National Particle Component Toxicity \(NPACT\) Initiative Report on Cardiovascular Effects.](#) Research Report 178. Boston, MA:Health Effects Institute.
- Wu J, Laurent O, Li L, Hu J, Kleeman M. 2016. [Adverse Reproductive Health Outcomes and Exposure to Gaseous and Particulate-Matter Air Pollution in Pregnant Women.](#) Research Report 188. Boston, MA:Health Effects Institute.