Can We Rely on Environmental Health Research?

Chairs: Amy Herring, Duke University and HEI Research Committee; and Kiros Berhane, University of Southern California and HEI Review Committee

3:15 Reproducibility and Replicability: Definitions and What They Imply
Steve Goodman, Codirector of Meta Research Innovation Center, Stanford University

3:45 Choices and Consequences: Study Design, Data Analysis, Reporting, Interpretation
Amy Herring

4:15 Reproducibility and Air Pollution Epidemiology
Rick Burnett, Health Canada

4:45 Panel Discussion
Ila Cote, Formerly of the U.S. Environmental Protection Agency
Richard Smith, University of North Carolina-Chapel Hill

Replicability and Air Pollution Epidemiology
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Tuesday, May 1

7:00 AM Breakfast

8:30 AM Advancing Air Quality, Global Health, and Energy Science at HEI

Part I: Progress on Air Quality and Global Health Science
Chairs: David Eaton, University of Washington-Seattle and chair of HEI Research Committee; and James Merchant, University of Iowa and chair of HEI Review Committee

8:30 Introduction of New Chair of the Research Committee
Dan Greenbaum, Health Effects Institute

8:40 Introduction to Core Research and Review Committees
David Eaton and James Merchant

8:55 Presentation of 2017 Walter A. Rosenblith New Investigator Awards
Annemoon van Erp, Health Effects Institute

9:05 Core Science Program: Traffic-Related Air Pollution, Low Levels of Exposure, Accountability, and Mechanisms
Rashid Shafik, Health Effects Institute

9:25 Global Health Program: GBD MAPS, Household Air Pollution, and Ports
Katy Walker, Health Effects Institute

Part II: Launching the HEI Energy Research Program and Initial Findings
Chair: George Hornberger, Vanderbilt University and chair of Energy Research Committee

9:50 Introduction to the Energy Research Committee and the Program
George Hornberger

10:05 Progress on Systematic Review of the Human Health Literature Related to Unconventional Oil and Natural Gas Development
Anna Rosolsky, Health Effects Institute

10:25 Plans for Exposure Literature Review and Research Planning
Donna Vorhees, Health Effects Institute

11:15 AM The Power of Place: Pathways to Healthy Urban Living
Chairs: David Foster, University of Wisconsin-Madison and HEI Research Committee; and Frank Kelly, King’s College London, United Kingdom, and HEI Review Committee

11:15 Keynote Speaker: Health of Urban Populations
Sandro Galea, Boston University

12:00 PM Lunch

1:00 Interrelationships Between Urban Green Space, Air Pollution, and Health
Jaime Hart, Harvard T.H. Chan School of Public Health

1:30 Healthy Urban Living: Urban Design, Transport Planning, and Travel Choice
Lawrence Frank, University of British Columbia, Canada

2:15 General Discussion

2:30 PM Conference Adjourns
PRE-CONFERENCE WORKSHOP

9–11:30 AM Causal Modeling in Air Pollution Research and Policy
Chairs: Francesca Dominici, Harvard T.H. Chan School of Public Health and HEI Research Committee; and Katherine Walker, Health Effects Institute

9:00 Opening Remarks / Objectives
Katherine Walker and Francesca Dominici

9:10 The Many Paths to Causality
Richard Scheines, Carnegie Mellon University

9:35 Predicting and Evaluating Changes in Health Risks Caused by Changes in Air Pollution
Tony Cox, Cox Associates

10:00 Approaches to Causal Inference in Observational Studies in Medical Decision Making
Sharon-Lise Normand, Harvard Medical School and Harvard T.H. Chan School of Public Health

10:25 am Break

10:45 Panel Discussion
Lianne Sheppard, University of Washington and HEI Review Committee, and the speakers

MAIN CONFERENCE

11:30 AM Lunch

1:00 PM Ozone: Global Pollutant, Personal Effects
Chairs: Dan Greenbaum, Health Effects Institute; and Jana Milford, University of Colorado–Boulder and HEI Review Committee

1:00 Welcome and Introduction
Dan Greenbaum

1:10 Global Dimensions to Regional Air Quality: Transboundary Transport and Climate Change
Arlene Fiore, Columbia University

MONDAY, APRIL 30

7:00 AM Breakfast

8:30 AM Health Effects of Traffic-Related Air Pollution: Assessing the Evidence in an Evolving and Complex World
Chairs: Francesco Forastiere, Lazio Regional Health Service, Italy; and Fred Lurmann, Sonoma Technology, Inc.

8:30 Introduction of Panel Members for the New Review of the Traffic and Health Literature
Bob O’Keefe, Health Effects Institute

8:40 Traffic-Related Air Pollution: A Moving Target
Beth Conlan, Ricardo, United Kingdom

9:10 Important Knowledge Gaps in Studying Health Effects of Traffic Exposure
Francesco Forastiere

9:30 Comments from Stakeholders and General Discussion
Kathryn Sargeant, U.S. Environmental Protection Agency
Kurt Karperos, California Air Resources Board
Matthew Spears, Engine Manufacturers Association

10:10 The New HEI Traffic and Health Studies
Hanna Boogaard, Health Effects Institute

10:15 AM Break

10:45 AM Air Pollution and Diabetes: What Is the Evidence?
Chairs: Barbara Hoffmann, University of Düsseldorf, Germany, and HEI Research Committee; and Ivan Rusyn, Texas A&M University and HEI Research Committee

10:45 Brief Introduction to the Session
Ivan Rusyn

10:50 Overview of Evidence of a Link Between Air Pollution and Diabetes
Barbara Hoffmann

11:10 Mechanistic Insights into Air Pollution and Type 2 Diabetes
Sanjay Rajagopalan, Case Western University

11:30 Long-Term Exposure to Air Pollution and Type 2 Diabetes in Adults
Robin Puett, University of Maryland

11:50 Early-Life Exposure to Air Pollution and Diabetes in Childhood
Abby Fleisch, Maine Medical Center

12:10 General Discussion

12:30 Lunch

1:30 PM Poster Session 2