- 3:00 рм Break
- 3:15 PM 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
- 5:30 PM Free Evening

### Tuesday, May I

- 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 Shaikh*, 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 Rosofsky, Health Effects Institute
- 10:25 Plans for Exposure Literature Review and Research Planning Donna Vorhees, Health Effects Institute
- 10:45 AM Break

## 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 рм 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

## H E A L T H E F F E C T S INSTITUTE

# ANNUAL CONFERENCE April 29–May 1, 2018

### The Drake Hotel Chicago, Illinois



Trusted Science • Cleaner Air • Better Health

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## Sunday, April 29, 2018

#### **PRE-CONFERENCE WORKSHOP**

#### 9–11:30<sub>AM</sub> 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

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 1:50 Recent Studies That Will Contribute to the Ozone Health Assessment and the Setting of the Standard
1:50 Introduction Jana Milford

> 2:00 Link Between Ozone and Health: Epidemiological Evidence *Mike Jerrett*, University of California–Los Angeles

2:30 рм Break

2:50 Link Between Ozone and Health: Clinical Studies *Mark Frampton,* University of Rochester Medical Center and HEI Review Committee

- 3:20 Panel Discussion: How Does Scientific Knowledge and Uncertainty Inform Attainment Efforts at Ground Level? *Philip Fine*, South Coast Air Quality Management District *David Brymer*, Texas Commission on Environmental Quality
- 3:40 General Discussion
- 3:55 PM Presentation of Student and Postdoc Travel Awards

Dan Greenbaum

- 4:00 рм Break
- 4:15 PM Poster Session 1
- 5:30 рм Break

### 6:00 PM Opening Reception, Dinner, and Keynote Speaker

*Venkat Sumantran,* Chairman, Celeris Technologies, and coauthor of *Faster, Smarter, Greener: The Future of the Car and Urban Mobility* 

### 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

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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

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- 12:10 General Discussion
- 12:30 рм Lunch
- 1:30 PM Poster Session 2