




DAY 1

Tuesday January 21, 2020

8:30-9:00	Registration	10:15	Discussion	11:50	Evidence from the US - Air pollution and mortality in the Medicare population – Marianthi-Anna Kioumourtzoglou, Columbia University	15:15	Moderated discussion
9:00-9:30	Opening and Keynote Barbara Hoffmann, European Respiratory Society (ERS) Hanna Boogaard, Health Effects Institute (HEI) and ISEE Europe Nathalie Roebbel, World Health Organization (WHO)	10:00-11:00	Coffee break	12:10	Moderated discussion	15:45-16:15	Coffee break
9:10	Video message from Virginijus Sinkevičius, European Commissioner for Environment, Oceans and Fisheries	11:00-12:45	Session 2: How low should we go? New health research on low-level ambient air pollution Although ambient air pollution levels are declining in high-income regions, epidemiological studies report associations with health effects at levels below current standards, raising questions about even lower standards. HEI is in the midst of funding three studies investigating the health effects of low-level exposure in very large populations in Europe and North America. This session will present the results currently available from those studies, discuss their strengths and weaknesses, and discuss potential implications for future risk assessment and regulation. Chairs: Dorota Jarosinska, WHO Regional Office For Europe, and Dan Greenbaum, HEI	12:45-14:00	Lunch break	16:15-18:00	Session 4: Air Quality Improvements and Climate Mitigation: Key Co-Benefits for Public Health There is a long standing interest in measuring the effectiveness of air quality and climate actions in improving health. Cities are taking bold air quality and climate action, leading the way towards a healthier and more sustainable future. This session will review the latest science, and highlight key co-benefits benefits to inform the European Green Deal. Chairs: Nathalie Roebbel, WHO and Annemoon van Erp, HEI
9:30-10:30	Session 1: The Current European and US Regulatory Contexts The session summarizes the current European and US regulatory contexts, against the backdrop of the European Green Deal, which sets out how to make Europe the first climate-neutral continent by 2050. Chairs: Robert O’Keefe, HEI and Martin Williams, King’s College London	11:00	Introduction: Why study the health effects of low levels of air pollution – Hanna Boogaard, HEI	14:00-15:45	Session 3: Recent Reviews Regarding the Health Effects of Ambient Air Pollution - What do They Tell Us? The session will review the latest science on major air pollutants as a key step in evaluating whether to update Europe’s air quality policies. It will present findings from recent key reviews on air pollution health effects from Europe and beyond. It will describe approaches for evidence synthesis, and discuss possible paths forward. Chairs: Michal Krzyzanowski, WHO (retired), and Frank Kelly, King’s College London	16:15	Health effects of air quality actions across the globe – David Rich, University of Rochester
9:30	The European Green Deal and air quality policy and its review – Thomas Henrichs, European Commission, Directorate General Environment	11:10	Evidence from Europe - Effects of low-level air pollution: A study in Europe (ELAPSE) – Gerard Hoek, Utrecht University	14:00	Revisions of the WHO Air Quality Guidelines: current status – Dorota Jarosinska, WHO Regional Office For Europe	16:35	The co-benefits of climate mitigation on air pollution – Kris Ebi, University of Washington (by video)
9:45	Air pollution and health: policy linkages – Giulio Gallo, Directorate General Health and Food Safety	11:30	Evidence from Canada - Mortality-air pollution associations in low exposure environments (MAPLE) – Mike Brauer, University of British Columbia	14:15	NO2 health effects on mortality – are they independent? - Alison Gowers, Public Health England	16:55	The power of place: Pathways to a healthy urban living – Mark Nieuwenhuijsen, ISGlobal and ISEE
10:00	Overview of main conclusions of the Integrated Science Assessment for particulate matter – Jason Sacks, US Environmental Protection Agency (EPA)			14:30	Health effects of ultrafine particles – Annette Peters, Helmholtz Zentrum München	17:15	Towards clean air in cities: UNECE Expert Panel on Clean Air in Cities – Rob Maas, RIVM
				14:45	Current knowledge on adverse effects of ambient air pollution: Approaches for evidence synthesis – Kurt Straif, IARC (retired), ISGlobal, Boston College	17:25	Moderated discussion
						18:00	Adjourn Reception



DAY 2

Wednesday January 22, 2020

8:00-8:30 Registration

8:30-9:00 **Opening and Keynote**

Barbara Hoffmann, ERS
Hanna Boogaard, HEI and ISEE Europe
Sophie Gummy, WHO

8:40 Nathalie Roebbel, WHO

9:00-10:45 **Session 5: Health burden assessments for informing environmental policy in Europe: challenges and opportunities**

How important are air pollutants as a threat to public health? What are the potential health and economic benefits of meeting different air quality standards? Which sources contribute most to air pollution and its impacts? Scientists and regulators have turned to health burden assessment methods to answer such questions, often leading to an array of estimates. This session will present the most recent European Environmental Agency estimates of air pollution's burden, explain some of the approaches and challenges in estimation and interpretation of air pollution's health burden, and discuss opportunities for placing air pollution's impacts into broader perspective.

Chairs: Sophie Gummy, WHO and Mike Brauer, University of British Columbia

9:00 Air quality in Europe – Hans Bruyninckx, European Environment Agency

9:20 Quantifying the air pollution burden of disease – Bert Brunekreef, Utrecht University

9:40 Source specific estimates and cost benefit analyses – Markus Amann, International Institute for Applied Systems Analysis

10:00 Beyond mortality – communicating the public health burden of air pollution – Katy Walker, HEI

10:15 Moderated discussion

10:45-11:15 Coffee break

11:15-13:00 **Session 6: Meeting Closing Session: Air pollution, Climate and Health: what research and policies do we need?**

In wrapping up the meeting, we will summarize the evidence presented, including whether there is a concentration below which no adverse health effects are observed for the major pollutants. In addition, we will discuss remaining uncertainties and priorities for future research and policy.

Chairs: Dan Greenbaum, HEI and Hans Bruyninckx, EEA

11:15 EU-funded research on air quality and health: achievements and future – Laia Quiros, DG Research

11:30 Current knowledge on adverse effects of ambient air pollution: have we filled the gap? What more do we need to know? – Francesco Forastiere, King's College London

12:00 Panel discussion and general discussion: What's next for the Green Deal?

12:45 Closing comments from the session chairs

13:00 **Adjourn**



Air pollution and Health:

Recent Advances to Inform the European Green Deal

January 21-22, 2020

Square Brussels Convention Centre,
Coudenberg 3, 1000 Brussels, Belgium