

## Table of Contents

<b>Preface .....</b>	i
<i>Lorraine Craig, Daniel Krewski, John Shortreed, and Jonathan Samet</i>	
<b>Strategies For Clean Air And Health Conference Statement .....</b>	1
<i>Lorraine Craig, Daniel Krewski, John Shortreed, Jonathan Samet, and Leendert van Bree</i>	
<b>PART I - Ambient Air Quality</b>	
Assessing sources of PM <sub>2.5</sub> in cities influenced by regional transport .....	9
<i>J.R. Brook, R.L. Poirot, T.F. Dann, P.K.H. Lee, C.D. Lillyman, and T. Ip</i>	
Modelling the intra-urban variability of ambient traffic pollution in Toronto, Canada -.....	19
<i>M. Jerrett, M.A. Arain, P. Kanaroglou, B. Beckerman, D. Crouse, N.L. Gilbert, J.R. Brook, N. Finkelstein, and M.M. Finkelstein</i>	
Two years fine and ultrafine particles measurements in Rome, Italy .....	35
<i>A. Marconi, G. Cattani, M. Cusano, M. Ferdinandi, M. Inglessis, G. Viviano, G. Settimi, and F. Forastiere</i>	
Impact of iron and steel industry and waste incinerators on human exposure to dioxins, PCBs and heavy metals: results of a cross-sectional study in Belgium .....	47
<i>S. Fierens, H. Mairesse, J-F. Heilier, J-F. Focant, G. Eppe, E. De Pauw, and A. Bernard</i>	
<b>PART II - Health Effects</b>	
Health effects associated with exposure to ambient air pollution .....	55
<i>J. Samet, and D. Krewski</i>	
Ambient air pollution and population health: Overview of health effects posters presented at the 2003 AIRNET/NERAM Conference .....	77
<i>D. Krewski, and D. Rainham</i>	
Sources of uncertainty in calculating mortality and morbidity attributable to air pollution .....	89
<i>T. Sahsuvaroglu, and M. Jerrett</i>	
Urban air pollution and respiratory emergency visits at Paediatric Unit, Reggio Emilia, Italy .....	113
<i>E. Bedeschi, C. Campari, S. Candela, N. Caranci, G. Frasca, G. Collini, C. Galassi, and M.A. Vigotti</i>	
Urban air pollution and emergency visits for respiratory complaints in Pisa, Italy.....	119
<i>M.A. Vigotti, F. Chiaverini, P. Biagiola, and G. Rossi</i>	
Increase of exhaled nitric oxide in children exposed to low levels of ambient ozone .....	125
<i>M. Nickmilder, C. de Burbure, S. Carbonnelle, X. Dumont, A. Derouane, and A. Bernard</i>	

### **PART III - Mechanism of Effect**

- Lung permeability, antioxidant status and NO<sub>2</sub> inhalation: a selenium supplementation study in rats ..... 135  
*C.Y. de Burbure, J-F. Heilier, J. Nève, A. Becker, C. Albrecht, P.J.A. Borm, J. Gromadzinska, W. Wasowicz, K. Rydzynski, and A.M. Bernard*

- Chromosomal aberrations by fluorescence in situ hybridization (fish) – biomarker of exposure to carcinogenic PAHs ..... 149  
*O. Beskid, B. Binkova, Z. Dusek, P. Rössner, I. Kalina, T.A. Popov, P.B. Farmer, R.J. Srám*

### **PART IV - Policy Tools and Approaches**

- Air quality modelling for policy development ..... 161  
*N. Reid, P.K. Misra, M. Amman, and J. Hales*

- Tools and strategies for improving policy responses to the risk of air pollution ..... 181  
*A. Rabl, J. Nathwani, M. Pandey, and F. Hurley*

- Analysis of PM<sub>2.5</sub> using the environmental Benefits Mapping and Analysis Program (BenMAP) ..... 203  
*K. Davidson, A. Hallberg, D. McCubbin, and B. Hubbell*

- Developing risk-based priorities for reducing air pollution in urban settings in Ukraine ..... 221  
*M. Brody, J. Caldwell, and A. Golub*

- Air quality improvements with European environment policies: SO<sub>2</sub> case study in a coastal region in Portugal .... 229  
*M.C. Pereira, R.C. Santos, and M.C.M. Alvim-Ferraz*

- Health impact assessment of PM<sub>10</sub> exposure in the city of Caen, France: Is eliminating air pollution peaks enough?..... 237  
*P. Gloreennec, and F. Monroux*

### **PART V - Science-Policy Issues**

- Fine particles: From scientific uncertainty to policy strategy ..... 247  
*R. Maas*

- Clean Air Strategy: An ENGO perspective on the science-policy interface ..... 253  
*M.K. Wallis*

- Closing the gap between science and policy on air pollution and health - The AIRNET enterprise ..... 263  
*L. van Bree, N. Fudge, J.T. Tuomisto, and B. Brunekreef*