



PROGRAMME

Sunday 17th June 2012

18.00 – 20.00	Registration
19.00 – 20.00	Reception

Monday 18th June 2012

07.30 – 08.30	Registration
08.30 – 08.50	Opening Remarks
	Oral Session 1: Urban Human Health
08.50 – 09.35	[P1] What's a healthy city? Combining insights from social, outdoor air pollution, indoor climate, climate change, exercise, traffic accidents, infectious disease & obesity epidemiology.... B. Brunekreef, <i>Universiteit Utrecht, IRAS, The Netherlands</i>
09.35 – 10.05	[K1] Urban social stress: Risk factor for mental disorders F. Lederbogen, <i>Central Institute of Mental Health, Germany</i>
10.05 – 10.25	[O1] Cumulative health impact assessment of air pollution in two neighbourhoods of Toronto, Canada S. Gower ¹ , R. Macfarlane ^{*1} , M. Belmont ¹ , C. Morgan ² , ¹ Toronto Public Health, Canada, ² Toronto Environment Office, , Canada
10.25 – 10.55	Refreshment Break
	Oral Session 2: Vegetation and Urban Environment
10.55 – 11.25	[K2] Quantifying carbon storage in cities Z.G. Davies ^{*1} , J.L. Edmondson ² , J.R. Leake ² , K.J. Gaston ³ , ¹ University of Kent, UK, ² University of Sheffield, UK, ³ University of Exeter, UK
11.25 – 11.45	[O2] Urban vegetation as mitigating air pollution in northern conditions H. Setälä*, V. Viippola, O. Honkonen, A-L. Rantalainen, V. Yli-Pelkonen, <i>University of Helsinki, Finland</i>
11.45 – 12.05	[O3] Ozone pollutant uptake by urban trees A. Morani ^{*1} , D.J. Nowak ² , S. Hirabayashi ² , S. Fares ³ , C. Calfapietra ¹ , ¹ National Research Council, Italy, ² USDA Forest Service, USA, ³ Agricultural Research Council, Italy
12.05 – 12.25	[O4] Improving the use of urban forest as a tool for air decontamination strategies V. Carvajal*, K. Corada, M. Préndez, <i>Universidad de Chile, Chile</i>
12.25 – 12.45	[O5] Implications for urban air quality in green cities A. Tiwary ^{*1} , A. Namdeo ¹ , J.D. Fuentes ^{1,2} , M. Mohan ^{1,3} , M.C. Bell ¹ , ¹ Newcastle University, UK, ² Pennsylvania State University, USA, ³ Indian Institute of Technology, India
12.45 – 13.05	[O6] Spatial distribution of non-exhaust particulate matter emissions from road traffic in the city of Bogota - Colombia D. Beltran, L.C. Belalcazar*, N. Rojas, <i>National University of Colombia, Colombia</i>
13.05 – 14.00	Lunch
	Oral Session 3: Urban Air Environment
14.00 – 14.30	[K3] Ozone levels in urban centers and rural sites in Europe and the USA: Overall trend is for increases for both and convergence E. Paoletti ^{*1} , D. Beddows ² , A. De Marco ³ , R. Harrison ² , W.J. Manning ⁴ , P. Parvanova ⁵ , ¹ IPP-CNR, Italy, ² University of Birmingham, UK, ³ ENEA, Italy, ⁴ University Massachusetts, USA, ⁵ Bulgarian Academy of Sciences, Bulgaria
14.30 – 14.50	[O7] High spatial resolution urban biomonitoring for air pollution: an overview of experiences R. Samson*, J. Hofman, A.R. Khavaninzadeh, I. Stokkaer, S. Van Wittenberghe, T. Wuytack, F. Kardel, <i>University of Antwerp, Belgium</i>
14.50 – 15.10	[O8] Impact of urban characteristics on carbon dioxide emissions M. Roth ^{*1} , E. Velasco ¹ , ¹ National University of Singapore, Singapore, ² Singapore-MIT Alliance for Research and Technology, Singapore
15.10 – 15.30	[O9] Geochemical characterization of aerosol from Santiago de Chile A. Valdés ^{*1,2} , M. Polvé ² , M. Munoz ² , J.P. Toutain ² , D. Morata ³ , ¹ National Geological and Mining Service of Chile, Chile, ² Laboratoire de Géosciences Environnement Toulouse (GET), France, ³ University of Chile, Chile

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15.30 – 16.00	[Y1] Biomagnetic monitoring of intra-urban spatial variation of particulate matter F. Kardel*, K. Wuyts, R. Samson, <i>University of Antwerp, Belgium</i>
16.00 – 18.00	Refreshment Break and Poster Session 1
19.00	Conference Dinner
Tuesday 19th June 2012	
	Oral Session 4: Urban Human Health
08.30 – 09.00	[K4] Beyond walkability: Examining how urban built environments affect health & health disparities in New York City G.S. Lovasi*, K. Neckerman, C. Weiss, J. Quinn, A. Rundle, <i>Columbia University, USA</i>
09.00 – 09.20	[O10] Quantifying particulate matter exposure and relative change in heart rate variability in commuter groups M. Nyhan*, A. McNabola, B.D. Misstear, <i>Trinity College Dublin, Ireland</i>
09.20 – 09.40	[O11] The effects of human exposure to urban environmental stressors on Heart Rate Variability as an indicator of stress I. Schnell* ¹ , I. Tirosh ² , O. Potchter ¹ , Y. Epstein ^{1,3} , Y. Yaakov ¹ , H. Hermesh ^{1,4} , ¹ <i>Tel Aviv University, Israel</i> , ² <i>Bnei Zion Hospital, Israel</i> , ³ <i>Heller Institute, Israel</i> , ⁴ <i>Geha Mental Health Center, Israel</i> , ⁵ <i>Arava Center for Sustainable Development, Israel</i>
09.40 – 10.00	[O12] Chemical composition and toxicological effects of ambient particulate matter from the region of Aachen, Germany S. Michael* ^{1,2} , M. Montag ¹ , W. Dott ¹ , ¹ <i>Institute of Hygiene and Environmental Medicine, Germany</i> , ² <i>Human Technology Centre, Germany</i>
10.00 – 10.20	[O13] Trends of Urban Pollution Changes in Ipoh City, Malaysia, with special references on the PM₁₀ of urban areas M.H. Ibrahim* ¹ , J. Md jahi ¹ , A.S. Hadi ¹ , ¹ <i>UPSI, Malaysia</i> , ² <i>UKM, Malaysia</i>
10.20 – 10.50	Refreshment Break
	Oral Session 5: Urban Human Health
10.50 – 11.20	[K5] Novel sensor technologies towards environmental health monitoring in urban environments D.E. Obinaju, F.L. Martin*, <i>Lancaster University, UK</i>
11.20 – 11.40	[O14] Spatial variation of black carbon and NO₂ concentrations in an urban environment M. Van Poppel* ¹ , C. Matheussen ² , ¹ <i>VITO, Belgium</i> , ² <i>Flemish Environmental Agency, Belgium</i>
11.40 – 12.00	[O15] Airway macrophage black carbon content in children comparing two urban centres in the UK J. Alam* ¹ , R.E. Brugh ¹ , N. Mushtaq ¹ , I. Dundas ² , J. Grigg ¹ , ¹ <i>Blizard Institute, St Bartholomew's Hospital and The London School of Medicine and Dentistry, UK</i> , ² <i>St Bartholomew's Hospital and The London NHS Trust, UK</i>
12.00 – 12.20	[O16] Associations between urban form and mortality rates in Great Britain D. Fecht*, L. Fortunato, R. Smith, <i>Imperial College London, UK</i>
12.20 – 12.40	[O17] A cohort study of intra-urban variations in volatile organic compounds and mortality, Toronto, Canada P.J. Villeneuve* ¹ , M. Jerrett ² , J. Su ² , ¹ <i>Health Canada, Canada</i> , ² <i>University of California Berkeley, USA</i> , ³ <i>McGill University, Canada</i> , ⁴ <i>Environment Canada, Canada</i> , ⁵ <i>Public Health Ontario, Canada</i>
12.40 – 13.00	[O18] Impact of early exposure to air pollutant in the innate response to allergic insult in mice K.T. Santos* ¹ , J. Florenzano ¹ , J.P.S. Peron ² , S.A. Teixeira ¹ , N.O.S. Câmara ² , S.K.P. Costa ¹ , ¹ <i>Departments of Pharmacology - Institute of Biomedical Sciences, University of São Paulo, Brazil</i> , ² <i>Departments of Immunology - Institute of Biomedical Sciences, University of São Paulo, Brazil</i>
13.00 – 13.50	Lunch
	Oral Session 6: Urban Air Environment
13.50 – 14.20	[K6] Impact of vegetation on urban heat, water and carbon exchanges S. Grimmond*, T. Loidan, M. Best, J. Best, S. Kottaus, <i>King's College London, UK</i>
14.20 – 14.40	[O19] Strategies in urban planning to mitigate urban heat load L. Katzschner, <i>University Kassel, Germany</i>
14.40 – 15.00	[O20] Effects of urban trees: Growth conditions and urban cooling M.A. Rahman*, A.R. Ennos, <i>University of Manchester, UK</i>
15.00 – 15.20	[O21] Evaluating the impact of urban heat island effect on the spatial and temporal distribution of Beijing's inhalable particles L.Y. Xu* ^{1,2} , X.D. Xie ¹ , ¹ <i>State Key Joint Laboratory of Environmental Simulation and Pollution Control, China</i> , ² <i>Beijing Normal University, China</i>
15.20 – 15.40	[O22] Understanding the characteristics of the microenvironments in urban street Canyons through a comprehensive analysis of nitrogen dioxide measured using a pervasive sensor array M.C. Bell*, G. Hill, F. Galatioto, <i>Newcastle University, UK</i>

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15.40 – 16.00	[O23] Geochemical Peculiarities of the City of Yerevan Environment: a Review A.K. Saghatelyan, L.V. Sahakyan*, <i>The Center for Ecological-Noosphere Studies of the National Academy of Sciences, Armenia</i>
16.00 – 16.30	[Y2] Life cycle assessment applied to the urban scale: Evaluation of the effect of the New York City increase in rooftop albedo on human health T. Susca, <i>Polytechnic of Bari, Italy</i>
16.30 – 18.30	Refreshment Break and Poster Session 2
Wednesday 20th June 2012	
Oral Session 7: Vegetation and Air Quality	
08.30 – 09.00	[K7] Role of biogenic volatile compounds emitted by urban trees on ozone formation in cities C. Calfapietra* ¹ , S. Fares ² , F. Manes ³ , F. Loreto ⁴ , ¹ <i>Institute of Agro-Environmental & Forest Biology (IBAF), Italy</i> , ² <i>Agricultural Research Council, Italy</i> , ³ <i>Sapienza University, Italy</i> , ⁴ <i>National Research Council (CNR), Italy</i>
09.00 – 09.20	[O24] Improving local air quality: To tree or not to tree? P.E.J. Vos*, B. Maiheu, J. Vankerkom, S. Janssen, <i>Flemish Institute for Technological Research (VITO), Belgium</i>
09.20 – 09.40	[O25] Air pollution removal capacity by urban vegetation in a city of Northern Italy: Results and potential contribution to pollution mitigation strategies A. Buffoni* ¹ , F. Bacchiocchi ² , S. Pinzauti ³ , P. Toccafondi ³ , M. Vitale ⁴ , V. Silli ^{4,5} , ¹ <i>ab-studio, Milan, Italy</i> , ² <i>Forlì Municipality, Italy</i> , ³ <i>Associated firm, Florence, Italy</i> , ⁴ <i>University of Rome La Sapienza, Italy</i> , ⁵ <i>University of L'Aquila, Italy</i>
09.40 – 10.00	[O26] Vegetation as a tool for reducing particulate air pollution: A case study in Central London K. Shackleton*, H. Smith, N. Bell, L. Davies, <i>Imperial College London, UK</i>
10.00 – 10.20	[O27] Fluxes of anthropogenic particles through urban tree canopies determined by magnetic susceptibility M. Langner* ¹ , M. Kull ² , A. Kontny ² , ¹ <i>Humboldt-Universität zu Berlin, Germany</i> , ² <i>Karlsruhe Institute of Technology, Germany</i>
10.20 – 10.50	Refreshment Break
Oral Session 8: Urban Environmental Management	
10.50 – 11.10	[O28] Urban nitrogen oxides and particulate matter dynamics as influenced by weather type and circulation pattern in Gothenburg, Sweden H. Pleijel*, M. Grundström, L. Tang, C. Hak, M. Hallquist, <i>University of Gothenburg, Sweden</i>
11.10 – 11.30	[O29] The efficiency of antioxidants and enzymes as a proxy for the - nitrogen - air pollution stress T. Wuytack* ¹ , K. Verheyen ² , H. Ghareib ¹ , H. Asard ¹ , R. Samson ¹ , <i>University of Antwerp, Belgium</i> , ² <i>Ghent University, Belgium</i>
11.30 – 11.50	[O30] The impact of different types of urban green vegetation on urban temperature and stormwater management E. Andreou ^{1,2} , T.M. Muthanna* ¹ , ¹ <i>Norwegian University of Science and Technology, Norway</i> , ² <i>University of Athens, Greece</i>
11.50 – 12.10	[O31] The effect of roof and rain-event type on pollutant balance of green roofs M. Seidl*, M.C. Gromaire, <i>University Paris-Est LEESU ENPC, France</i>
12.10 – 12.30	[O32] Changes in toxicity profiles of urban runoff after climate-change related events T. Hamers*, B. van Hattum, <i>Institute for Environmental Studies (IVM), The Netherlands</i>
12.30 – 12.50	[O33] Retrofitting impervious urban infrastructure with green technology for rainfall-runoff restoration, indirect reuse and pollutant load reduction J. Sansalone*, S. Raje, C. Berretta, G. Ying, <i>University of Florida, USA</i>
12.50 – 14.00	Lunch
Oral Session 9: Urban Environment	
14.00 – 14.30	[K8] Mending the broken biogeochemical cycling of nitrogen and phosphorus at the urban-rural interface Y.G. Zhu* ¹ , W.S. Luo ¹ , ¹ <i>Chinese Academy of Sciences, China</i> , ² <i>Kasetsart University, Thailand</i>
14.30 – 14.50	[O34] Collembola biodiversity in urban soils of Naples (Italy) L. Santorufo* ^{1,2} , J. Cortet ² , C.A.M. van Gestel ³ , G. Maisto ¹ , ¹ <i>Università degli Studi di Napoli Federico II, Italy</i> , ² <i>Université de Lorraine-UMR INPL/INRA, France</i> , ³ <i>VU University, Amsterdam, The Netherlands</i>
14.50 – 15.10	[O35] Disentangling the effects of multiple stressors on urban stream ecosystems: The constraint approach S. Canobbio* ¹ , A. Azzellino ² , P. Genoni ³ , V. Mezzanotte ¹ , ¹ <i>Università degli Studi di Milano-Bicocca, Italy</i> , ² <i>Politecnico di Milano, Italy</i> , ³ <i>ARPA Lombardia, Italy</i>

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15.10 – 15.30	<p>[O36] Methodologies and tools for the estimation of mass fluxes of xenobiotics at different scales in urban areas F. Reinstorf*¹, G. Strauch², M. Schirmer¹, ¹<i>University of Applied Sciences Magdeburg-Stendal, Germany</i>, ²<i>Helmholtz Centre for Environmental Research – UFZ, Germany</i></p>
15.30 – 16.00	Refreshment Break
16.00 – 16.20	<p>[O37] Acute toxicity of runoff from coal-tar- and asphalt-based pavement sealants to two aquatic organisms B.J. Mahler*¹, P.C. VanMetre¹, C.G. Ingersoll², J.L. Kunz², ¹<i>Texas Water Science Center, USA</i>, ²<i>Columbia Environmental Research Center, USA</i></p>
16.20 – 16.40	<p>[O38] PAH volatilization following application of coal-tar-based pavement sealant P.C. Van Metre*, M.S. Majewski, B.J. Mahler, W.T. Foreman, C.L. Braun, J.T. Wilson, <i>U.S. Geological Survey, USA</i></p>
16.40	Closing Remarks