



POSTER PROGRAMME

Monday 18th June 2012

Poster session 1

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[P1.2]	Natural ventilator of the city: A model for alleviating urban heat island P. Shahmohamadi ^{*1} , U. Cubasch ¹ , S. Sodoudi ¹ , A.I. Che-Ani ² , ¹ Freie Universität Berlin, Germany, ² Universiti Kebangsaan Malaysia, Malaysia
[P1.3]	Gas-phase elemental mercury removal by bamboo charcoal impregnated with KMnO₄: Mechanism study Z.Q. Tan ^{*1} , J.R. Qiu ¹ , J. Xiang ¹ , S. Su ¹ , F.H. Kong ² , L.S. Sun ¹ , S. Hu ¹ , L. Jiang ¹ , ¹ Huazhong University of Science and Technology, China, ² Xi'an Thermal Power Research Institute Co. Ltd.(Suzhou Branch), China
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[P1.5]	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. Yaakov ¹ , Y. Epstein ³ , H. Hermesh ⁴ , S. Brenner ⁵ , ¹ Tel Aviv University, Israel, ² Beny Tzion Hospital Haifa, Israel, ³ Heller Institute of Medical Research, Israel, ⁴ Geha Mental Health Center, Israel, ⁵ Arava Center for Sustainable Development, Israel
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[P1.8]	Detection of methane emitted from natural gas powered engines using laser photoacoustic spectroscopy. M.V. Rocha ^{*1} , M.S. Sthel ¹ , M.G. Silva ¹ , L.B. Paiva ¹ , F.W. Pinheiro ¹ , A. Miklòs ² , ¹ UENF, Brazil, ² Fraunhofer Institute for Building Physics, Germany
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[P1.61]	Characterization of street dust and dusts absorbed on leaves collected in a metro-city: With special reference to size, mineralogy and elemental distribution. S-S. Ram* ^{1,5} , P. Chaudhuri ² , S. Chanda ³ , S.C. Santra ⁴ , R.V. Kumar ⁵ , A. Chakraborty ¹ , ¹ UGC-DAE CSR, Kolkata Centre, India, ² University of Calcutta, India, ³ Centre for Study of Man and Environment, India, ⁴ University Of Kalyani, India, ⁵ University of Cambridge, UK
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[P1.75]	Spatial analysis and mapping of the effect of the socioeconomic deprivation on the association between ambient air NO₂ and infant mortality in the Lille metropolitan area, France. C.M.P. PADILLA* ^{1,2} , S.D. Deguen ^{1,2} , D.Z.N. Zmirou-Navier ^{1,2} , V.M.V. Vieira ⁴ , ¹ EHESP School of Public Health–Rennes, France, ² INSERM U1085-IRSET – Research Institute of environmental and Occupational Health. Rennes, France, ³ Lorraine University Medical School–Vandoeuvre-les-Nancy, France, ⁴ Boston University School of Public Health, USA
[P1.76]	Health risk prediction induced by polycyclic aromatic hydrocarbons present in respirable urban airborne in Rio de Janeiro (Brazil) I. Felzenszwalb* ¹ , C.R. Rainho ¹ , A.M.A. Velho ¹ , S.M. Corrêa ¹ , J.L. Mazzei ¹ , C.A.F. Aiub ² , ¹ Universidade do Estado do Rio de Janeiro, Brazil, ² Universidade Federal do Estado do Rio de Janeiro, Brazil
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[P1.90]	Monitoring of trace elements and PAHs: A combined approach using native bioaccumulators (holm oak leaves and mosses) to detect pollution gradients F. De Nicola ^{*1} , A. Alfani ² , D. Baldantoni ² , R. Bargagli ³ , F. Monaci ³ , L. Sessa ² , ¹ Dip. Scienze per la Biologia, Università degli Studi del Sannio, Italy, ² Dip. Chimica e Biologia, Università degli Studi di Salerno, Italy, ³ Università degli Studi di Siena, Italy, ⁴ Università degli Studi di Napoli Federico II, Italy
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Active moss biomonitoring of trace element distribution in Belgrade canyon streets

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Active biomonitoring of airborne trace elements was performed through the exposure of *Sphagnum girgensohnii* moss bags in 5 canyon streets in Belgrade. The selected canyon streets are situated in heavy traffic area, and there are large multi-level public garages in four of them (KN, M, DJ, OV), while the fifth street (KM) is a pedestrian zone. In the streets the moss bags were hung at heights of about 7, 14 and 21 m for 10 weeks during the summer of 2011. After the exposure period, the concentrations of Na, Mg, Al, K, Ca, V, Ni, Cr, Mn, Fe, Co, Cu, Zn, Sr, Cd, Ba and Pb in the moss were determined by ICP-OES. The most enriched elements in the exposed moss were Pb, Cu, V, Cr, Zn, and Ni in comparison to the initial moss elemental content. Some of the determined elements (Na, K, Mn) were depleted in exposed moss or stayed at the same level (Mg). In all canyon streets, the vertical distribution patterns of the moss elements concentration (Al, Ba, Ca, Cr, Cu, Ni, Pb, Sr, V, and Zn) showed statistically significant decrease from the first to the third heights of bags exposure. However, in two canyon streets (OV and KM), the highest elemental concentration was determined in the moss exposed at the second height. This discrepancy could be explained by different direction of the primary air vortex in these streets, where the exposure sites were either placed on the leeward side or in the main air flow in the second positioned height. Thus, residents in some canyon streets may be exposed to higher air pollution than pedestrians. The results confirmed that the use of *S. girgensohnii* moss bags is a simple, sensitive and inexpensive way to monitor the small-scale inner-city spatial distribution of ambient trace element content.

Keywords: biomonitoring of trace elements, *Sphagnum girgensohnii* moss bags, urban area, canyon streets

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Modelling of local traffic contributions to particulate air pollution in Belgrade street canyons using WinOSPM model

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Operational street pollution model WinOSPM is used to predict hourly NO_x, NO, NO₂, O₃, CO, BNZ, PM₁₀ concentrations in Belgrade street canyons with public garages. This model calculates pollutant concentrations inside a street canyon assuming three different contributions: (a) the contribution from the direct flow of pollutants from the source to the receptor, (b) the recirculation component due to the flow of pollutants around the vortex generated within the recirculation zone of the canyon, and (c) the urban background contribution and hourly meteorological data.

The modelling is performed in the very central area of Belgrade in four street canyons with public garages. The frequency of the car near the public garages has increased. Cars are moving slowly with frequent braking and thus, as a result of friction brake on ground (asphalt), the amount of particles emitted in the atmosphere is higher. Model receptors are located on different heights (7 m, 14 m and 21 m) to investigate the vertical distribution patterns of selected trace elements. Verification is defined by comparison with selected trace elements as reflected by their accumulation in moss (*Sphagnum girgensohnii*) exposed in bags on the same locations and heights. Results show reasonable level of correlation.

Keywords: Street pollution model, Street canyons, Trace elements, Accumulation in moss