T⁴ Conference

Section: Exchange processes in the surface layer and their environmental impacts (May 24-25, 2012)

http://theop11.chem.elte.hu/T4

Plenary lectures:

Regina Hitzenberger (University of Vienna, Austria) and J. Burkart: Cloud condensation nuclei (CCN) activation in urban and continental background regions

<u>Paola Fermo</u> (University of Milan, Italy), A. Piazzalunga, V. Bernardoni, G. Valli, R. Vecchi: Estimation of wood burning contribution to PM in Northern Italy: a review on recent results

Joseph Pinto (EPA, USA):

Issues and progress in modeling intercontinental transport of ozone

Workshop:

Exchange processes in the surface layer and their environmental impacts

(organizers: Imre Salma and Tamás Weidinger)

Location: Room 160 Chemistry Building

Thursday, 24 May 2012		
14:30-14:40	Imre Salma (ELTE, Budapest, Hungary)	
	Opening and comments on importance of atmospheric aerosol	
14:40–14:55	Zita Ferenczi (HMS, Budapest, Hungary) The effect of meteorological conditions on PM ₁₀ concentrations in Budapest	
14:55–15:10	Zsófia Kertész (INR HAS, Debrecen, Hungary), Zs. Török, Z. Szikszai, Z. Szoboszlai, A. Angyal, E. Furu, E. Dobos, I. Borbély-Kiss and E. Koltay Elemental fingerprints of atmospheric aerosol sources and transport in Debrecen, Hungary	
15:10–15:20	Györgyi Baranka (HMS, Budapest, Hungary) Recent trends in air quality modelling for cities	
15:20–15:35	<u>István Matyasovszky</u> (ELTE, Budapest, Hungary) and L. Makra Analysing Ambrosia pollen concentrations in Szeged, Hungary	
15:35–15:45	Imre Balásházy (ELTE, Budapest, Hungary) Recent achievements in modelling lung deposition of aerosol particles	
15:45–16:15	Break	
16:15–16:30	<u>Tibor Borsós</u> (ELTE, Budapest, Hungary) and I. Salma Ultrafine aerosol in different urban environments	
16:30–16:45	Ágnes Molnár (MTA-PE, Veszprém, Hungary), V. Gácser and Zs. Bécsi Characterization of the optical properties of rural and urban aerosol in Hungary	

16:45–17:00	Gyula Kiss (MTA-PE, Veszprém, Hungary), N. Törő, A. Hoffer, J. Dautovic, S. Frka and Z. Kozara Characterization of humic-like substances in size segregated atmospheric aerosol collected in different environments
17:00–17:10	András Gelencsér (MTA-PE, Veszprém, Hungary) Closing remarks and comments on advances in aerosol science
17:10–17:30	Discussions
Friday, 25* May	y 2012
14:30–14:35	Opening
14:35–14:50	A. Machon, <u>László Horváth</u> (HMS, Budapest, Hungary), B. Grosz and T. Weidinger Weather induced variability of nitrogen exchange between the atmosphere and a grassland in the Hungarian Great Plain
14:50–14:55	Szilvia Kugler (ELTE, Budapest, Hungary) Ammonia exchange between Lake Balaton and the atmosphere
14:55–15:10	Andrea Pogány (University of Szeged), Á. Mohácsi, T. Weidinger, L. Horváth, Z. Bozóki and G. Szabó A novel photoacoustic instrument for ammonia concentration and flux monitoring - results of field measurements
15:10–15:15	Györgyi Baranka (ELTE, Budapest, Hungary) Ammonia dispersion simulated by AERMOD
15:15–15:30	Eszter Tóth (TAKI, Budapest, Hungary) and Cs. Farkas Soil CO ₂ emission measurements on laboratory and field scales
15:30–16:00	Break
16:00–16:15	<u>Ferenc Ács</u> (ELTE, Budapest, Hungary) and H. Breuer Estimation of the actual evapotranspiration: an overview of Hungarian efforts
16:15–16:20	Albert Ruman (RHS, Novi Sad, Serbia) Influence of lake mask changes of Lake Balaton on local surface temperature
16:20–16:35	Balázs Szintai (HMS, Budapest, Hungary) Parameterization of boundary-layer turbulence in the AROME non-hydrostatic numerical weather prediction model
16:35–16:40	Á <u>rpád Bordás</u> (ELTE, Budapest, Hungary) Invited comments on description of the PBL structure using combined 1D vertical model
16:40–16:55	<u>Joseph Pinto</u> (EPA, USA) Issues in downscaling for climate change studies
16:55–17:15	Discussion

^{*}The workshop is a result of a joint program with the Group on Atmospheric Dynamic and Synoptic Meteorology of the Committee on Meteorology of the Hungarian Academy of Sciences.