

Conference Programme **POSTERS**

12th International Conference on Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes

Cavtat, 6 -9 October 2008

MONDAY 6 OCTOBER morning

MONDAY 6 OCTOBER afternoon

1240-1300 **Session 1: Model evaluation and quality assurance**

1. Part

Chair: S. Vidič

Plenary

Room: Ragusa

H12-11	Evaluation of the transport of pollution by the UK Met Office's dispersion and weather prediction models using the ETEX dataset <i>Dr Helen Dacre</i>
H12-12	Validation of air pollution (ISCST3) model under the meteorological conditions of Kuwait <i>M.S. Al-Rashidi</i>
H12-13	Discussions and Suggestions on using Different Point-to-Point protocols for Transport and Dispersion Model Evaluations <i>Nathan Platt, Steve Warner, James Heagy, Jeff Urban</i>
H12-14	Evaluation of methods for integrating monitoring and modelling data for regulatory air quality assessments <i>Angela Ball</i>
H12-19	What's the weather really like? Radiological impact of regular emissions from industrial sources: comparison of OPS and the transport model NPK-PUFF. <i>C.P. Tanzi, S. Bader, A. van Dijk</i>
H12-20	Performance of TAPM against MM5 at urban scale during GÖTE2001 campaign <i>Lin Tang, Junfeng Miao, Deliang Chen</i>
H12-21	A method of recovering the wind data at Nuclear Power Plant for approval discussion <i>C.K. Yim, H.J.S Fernando</i>
H12-24	WORM - A new open road line source model for low wind speed conditions <i>Sam-Erik Walker</i>

1730-1810 **Session 2: Environmental impact assessment**

Chair: A. Jeričević

Paralel

Room: Ragusa

H12-7	Dispersion in the atmosphere of a pollutant drifting at the sea surface ; Galerne project <i>François BONNARDOT Aline PEUCH Julien PAUL Pierre DANIEL</i>
H12-49	An application of CALPUFF dispersion model to a non-standard problem <i>Jana Krajcovicova</i>
H12-50	A novel health and air quality index based on human exposure and air concentration levels <i>A. Pelliccioni, C. Gariazzo, M. De Dominicis</i>
H12-53	Air Pollution Impacts and Sources under a Changing Climate: A Case Study for Scunthorpe, UK <i>Andrew Malby, Roger Timmis and Duncan Whyatt</i>
H12-54	Comparison of the dispersion model in RODOS-LX1 and MM5-V3.7-FLEXPART(V6.2). A case study for the nuclear power plant of Almaraz (Spain) <i>D.Arnold, A.Vargas, M. Montero, A. Dvorzhak, P.Seibert</i>
H12-56	Estimation of the critical pollution characteristics from low and high sources in PBL <i>E. Syrakov, M. Tsankov and E. Cholakov</i>
H12-57	A simplified approach for solution of time update problem during toxic waste plume spreading in atmosphere <i>Radek Hofman, Petr Pecha, Emilie Pechova</i>
H12-60	Development of a Rapid Prediction Technology for Emergency Protection Area at Nuclear Accidents <i>Masataki SUZUKI, Yoshitaka YOSHIDA</i>
H12-62	Environmental Impacts of Urban Agglomerations <i>Dr. Renate Forkel</i>

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TUESDAY 7 OCTOBER morning

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1220-1240 **Session 7: Urban scale and street canyon modelling**

1. Part

Chair: M. Schatzmann

Parallel

Room: Ragusa

H12-126	Implicit Large Eddy Simulation of Incompressible Flow <i>Vladimir Fuka, Josef Brechler</i>
H12-127	Numerical and experimental study of air quality in the Pamplona downtown (Navarra, Spain) <i>J.L. Santiago, M.A. Parra, F. Martín and J.M. Santamaría</i>
H12-131	Modelling Local air quality <i>Olaf Weinhold Gerard Visser Ernst Meijer Sander Jonkers</i>
H12-134	A FAST MODEL FOR FLOW AND POLLUTANT DISPERSION AT THE NEIGHBOURHOOD SCALE <i>Silvana Di Sabatino, Riccardo Buccolieri, Paolo Paradisi, Luigi Palatella, Raffaele Corrado, Efisio Solazzo</i>
H12-137	Determination of the PM10 urban threshold velocity of re-suspension in an inner part of urban area <i>Pospisil J. and Jicha M.</i>
H12-138	Air quality forecasting system for Budapest (Hungary) <i>Krisztina Labancz and Zita Ferenczi</i>

1220-1240 **Session 1: Model evaluation and quality assurance**

2. Part

Chair: D. Belušić

Parallel

Room:Bobara

H12-26	Verification of the JCAP Roadside Air Quality Simulation Model <i>H. Minoura and I. Akiyoshi</i>
H12-28	PM10 transport and diffusion in Northern Italy <i>A.Balanzino G.Pirovano G.M.Riva E.Ferrero M.Causa'</i>
H12-29	Determination of meteorological preprocessor for air quality models in New Hungarian Transmission Standards <i>Györgyi Baranka, Tamás Weidinger, Tamás Práger, Róbert Mészáros, Zoltán Nagy and András Zénó Gyöngyösi</i>
H12-31	DETERMINATION OF CONCENTRATION BY MEANS OF LIGHT SCATTERING AND DIGITAL IMAGE POSTPROCESSING <i>Prof. Jeoren Van Beeck, Gunes Nakiboglu, István Antal Horváth</i>
H12-36	An evaluation of VOC predictions over Spain <i>Marta G. Vivanco Magdalena Palacios Inmaculada Palomino Alberto Ortiz</i>
H12-41	Estimation of biogenic VOC emissions from ecosystems in the Czech Republic <i>Katerina Zemankova, Josef Brechler</i>
H12-42	Quality control in dispersion modeling: Validation of a screening model for PM10 and NO2 <i>Diegmann, Volker; Wurzler, Sabine</i>
H12-44	FIRST ATTEMPT THE NATIONAL AIR QUALITY MODELING OF MEXICO, PRELIMINARY RESULTS <i>Lopez-Villegas M T, Iniestra-Gomez R, Gonzáles-Castillo H and Garibay -Bravo V</i>

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WEDNESDAY 8 OCTOBER

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1330-1400 **Session 7: Urban scale and street canyon modelling**
2. part

Chair: K. Cuvelier

Parallel

Room: Ragusa

1330-1400 **Session 5: Short distance dispersion modelling**

Chair J. Bartzis

Parallel

Room:Bobara

H12-143	Study of the effects of building density and overall shape of a city on pollutant dispersion by combination of wind tunnel experiments and CFD simulations <i>Riccardo Buccolieri, Mats Sandberg</i>
H12-146	ON THE WIND FLOW PATTERNS UNDER NEUTRAL AND UNSTABLE CONDITIONS IN AN URBAN AREA <i>Aristeidis A. Nezis, Dionysios I. Angelidis, Vasiliki D. Assimakopoulos and George C. Bergeles</i>
H12-148	Flow Instabilities within an Urban Intersection <i>Radka Kellnerová and Zbyněk Jaňour</i>
H12-151	The effect of source treatment on pollutant dispersion in an idealised urban roughness in numerical simulations using the standard κ - ϵ turbulence closure model <i>Fotios Barmpas, Ioannis Ossanlis, Nicolas Moussiopoulos</i>
H12-152	EMEP4HR: Towards urban scale modelling using WRF and EMEP models <i>Danijel Belušić Kornelija Špoler Čanić Lukša Kraljević Anna Carlin Benedictow Leonor Tarrasón</i>
H12-153	<i>Evaluation of Natural and Traffic-Producing Turbulences Using Full Scale Data from Four Street Canyons</i> <i>Nicolás A. Mazzeo and Laura E. Venegas</i>

H12-76	The Ground Level Concentration from a point source <i>Alessandro Tiesi</i>
H12-79	Data mining Optimization applied to Neural Networks techniques: a Case-study of Ozone Prediction level <i>A. Pelliccioni, C. Gariazzo, R. Cotroneo</i>
H12-85	Development of Dose Assessment Code for Releases of Tritium during Normal Operation of Nuclear Power Plants <i>RNDr. Juraj Duran, Ph.D.</i>
H12-86	Air quality forecasting system at Ferihegy Airport –Hungary <i>Roland Steib, Zita Ferenczi and Krisztina Labancz</i>
H12-88	Representing the Dispersion of Emissions from Aircraft on Runways <i>A. Graham M. Bennett S. Christie D. Raper</i>
H12-89	On the parameterization of different stable turbulent regimes in PBL diffusion processes <i>Evgeni Syrakov</i>
H12-162	A new approach for minimizing computation time in puff dispersion models : A plume reconstruction algorithm <i>B. Farges, L. Soulhac, P. Armand, P. Salizzoni, V. Garbero</i>

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1640-1720 **Session 6: Meso-scale meteorology and air quality modelling**

Chair: D. Koračin

Parallel

Room: Ragusa

H12-2	Determination of Mixing Height in Riyadh, Saudi Arabia <i>Ali O. Al-Omair, Ibrahim S. Al-Mutaz and M.E.E. Abashar</i>
H12-9	An analytical non-stationary dispersion-deposition model <i>Marcelo Caputo, Marcelo Gimenez, Claudio Padra</i>
H12-83	Comparison of Lagrangian and Gaussian dispersion modelling at airports using the same emission inventory. <i>Nicolas DUCHENE, Serge PEETERS</i>
H12-94	Dust generation and dispersion (PM10 e PM2.5) in Aosta Valley: analysis with the FARM model <i>Giordano Pession, Tiziana Magri, Laurent Blanc, Manuela Zublena, Giovanni Agnesod, Camillo Silibello, Giuseppe Calori, Alessandro Nanni, Sandro Finardi</i>
H12-100	Numerical experiments using 2th, 4th, 6th and 8th order Bott advection scheme <i>Domagoj Mihajlović Lukša Kraljević</i>
H12-101	Simulation of an SO ₂ episode in the complex orography of Rijeka area <i>Kornelija Špoler Čanić, Amela Jeričević and Zvezdana Bencetić Klaić</i>
H12-102	Validation of mesoscale meteorological simulation over Po Valley for air quality applications <i>Enrico PISONI Ekaterina BATCHVAROVA Claudio CARNEVALE Giovanna FINZI</i>
H12-103	Intercomparison of two Gaussian models in the urban Zagreb area <i>Kornelija Špoler Čanić and Amela Jeričević H</i>
H12-107	Horizontal diffusion in EMEP chemical transport model <i>Lukša Kraljević, Branko Grisogono, Leonor Tarrason</i>

H12-113	High ozone episode at Zavižan, Croatia during 17 – 19 July 1998 <i>Zvezdana Bencetić Klaić, Danijel Belušić, Amela Jeričević and Tomislav Cvitaš</i>
H12-116	Model studies on nitrogen and sulphur transport and deposition since 1993 in the Baltic Sea surroundings <i>Marke Hongisto</i>
H12-119	SPATIAL VARIATIONS IN BIOGENIC EMISSIONS FOR LITHUANIA <i>V. ULEVICIUS, S. BYCENKIENE, K. SENUTA</i>
H12-120	ASSESSING THE CONTRIBUTION OF THE MAIN EMISSION SOURCES TO PARTICULATE MATTER CONCENTRATIONS IN THE MILAN AREA <i>Marco BEDOGNI, Simone CASADEI</i>
H12-121	METEOROLOGICAL MODELLING INFLUENCE ON REGIONAL AND URBAN AIR POLLUTION PREDICTABILITY <i>Stefano Bande, Alessio D'Allura, Sandro Finardi, Matteo Giorcelli and Massimo Muraro</i>
H12-122	AIR POLLUTION DIFFERENCES IN SIMULATION PATTERNS BY USING MM5-CMAQ AND WRF-CMAQ: SUMMER 2003 EUROPEAN POLLUTION EPISODE <i>R. San Jose, J. L. Pérez, J.L. Morant and R.M. González</i>

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1540-1600 **Session 4: Use of modelling in support of EU air quality directives**

Chair: C. Mensink

Parallel

Room:Bobara

H12-3	Quantification and evaluation of dust resuspension PM10 emissions in two large urban centers in Greece. <i>Markakis Konstantinos Msc.</i>
H12-66	Air Quality Modelling for Planning Proposes in the UK <i>Xiangyu Sheng, Garry Gray</i>
H12-69	New evaluation tools for meeting the EU directive on air pollution limits <i>Gunnar Omstedt, Stefan Andersson and Lars Gidhagen</i>
H12-70	Intercomparison, sensitivity and uncertainty analysis between different urban dispersion models applied to an Air Quality Action Plan in Tuscany, Italy <i>Paolo Giambini Matteo Carpentieri Andrea Corti</i>
H12-73	Air quality assessment in the European Mega City Ruhr Area: Effects of a low emission zone <i>Diegmann, Volker, Pfaefflin, Florian, Wurzler, Sabine</i>

1540-1600 **Session 8: Concentration fluctuations and odour**

Chair: C. Mensink

Parallel

Room: Bobara

H12-157	Experiments with inverse-dispersion modelling <i>Josef Keder</i>
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