

ABSTRACT Nr.	COUNTRY	TITLE
ORAL PRESENTATIONS		
TOPIC 1 - Role of Atmospheric Models in Air Pollution Policy and Abatement Strategies (air quality, risk assessment, emergency responses)		
22	Canada	Long time continuous models-3/CMAQ simulations to estimate transboundary influences on ozone and particulate matter concentrations over Ontario in Spring-Fall 1998
23	USA	Incorporation of high-order sensitivity analysis and uncertainty into optimization of pollution control
29	UK	Risk based approaches to assessing the environmental burden of acid gas emissions
48	Poland	Application of ROSE integrated assessment modelling system in minimization of the environmental risk in Poland
58	Belgium	Assessment of different land use development scenario's in terms of traffic flows and associated air quality
60	USA	Concentrations of toxic air pollutants in the US atmosphere, as predicted by an air quality model
84	USA	Preliminary results from the NYC Urban Atmospheric Observatory (UAO)
100	Germany	Traffic management and its impact on air quality in the conurbation of Munich, Germany
104	USA	Modeling health impacts of air pollution on US population
108	Israel	Model simulations of ozone formation over Israel, the West Bank and Jordan
114	Canada	A photochemical screening tool based on a scale analysis of ozone-precursor relationships
119	Canada	Global atmospheric cycling of mercury
121	Turkey	An Investigation of local anthropogenic effects in Istanbul with Model Study
126	Denmark	Integrated Systems for Forecasting Urban Meteorology, Air Pollution and Population Exposure: European FUMAPEX project
127	Canada	A numerical study of recirculation processes in the Lower Fraser Valley (British Columbia, Canada)

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64	USA	Air Pollution in the United States today: What are the health impacts?
70	Canada	Application of a comprehensive acid deposition model in support of acid rain abatement in Canada
74	Canada	Isotope abundance ratios as pollutant tracers in a source apportionment model
83	USA	Modeling and analysis of ozone and nitrogen oxides in the Southeast United States National Parks
106	Italy	Seasonal evaluation of EU road traffic emission abatement strategies on photochemical pollution in Northern Italy
TOPIC 2 - Integrated Regional Modelling (local and urban effects, mesoscale phenomena, regional modelling, one and two way nesting, application of existing models)		
6	Greece	Transport and deposition patterns of ozone and aerosols in the Mediterranean Region
7	Spain	Modeling of photochemical pollution in the Northeastern Iberian Peninsula
8	Spain	Modeling the weekend effect in the North-Eastern Iberian Peninsula
13	USA	Urbanized MM5 simulations of tree-cover trends on Houston ozone
19	USA	An atmospheric mercury model inter-comparison study for North America
21	France	Simulation of air quality in Chamonix Valley (France): impact of the road traffic of the tunnel on ozone production
27	Germany	Analysis of seasonal changes of atmospheric aerosols on different scales in Europe using sequentially nested simulations
34	Russia	Interaction between meteorological and dispersion models at different scales
46	Czech Republic	Computational model for transient pollutants dispersion in city intersection and comparison with measurements
66	Belgium	On the formulation and implementation of urban boundary conditions for regional models

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87	USA	Alternative approaches to sensitivity analysis of ozone
TOPIC 3 - Effects of Climate Change on Air Quality (including global and long-range transport)		
40	USA	Air quality in future decades – Determining the relative impacts of changes in climate, antropogenic and biogenic emissions, global atmospheric composition and regional land use
42	Norway	Calculated feedback effects of climate change caused by anthropogenic aerossols
101	Bulgaria	Fine-resolution modelling study of high ozone levels in Bulgaria
TOPIC 4 - Aerosols as Atmospheric Contaminants (human exposure and health effects, direct and indirect climate effects, visibility reduction)		
14	Portugal	Urban population exposure to particulate air pollution induced by road transport
18	Netherlands	Modelling fine aerosols and black carbon over Europe.
24	Canada	Numerical simulation of air concentration and deposition of particulate metals emitted from a copper smelter and a coal fired power plant during the 2000 field experiments on characterization of anthropogenic plumes.
37	Denmark	Modelling the influence of DMS on the aerosol production in the marine boundary layer
39	Denmark	Modelling the atmospheric transport and environmental fate of persistent organic pollutants in the Northern Hemisphere using a 3-D dynamical model
53	Germany	Simulation of aerosol distribution by a microscale atmospheric model.
59	France	Gas versus aerosol particle contribution to acid formation in clouds
77	Korea	Direct radiative forcing by anthropogenic aerosols in East Asia during April 2001
81	USA	Source apportionment of primary carbonaceous aerosol using the Community Multiscale Air Quality Model
90	Switzerland	Aerosol modelling with CAMx4 and PMCAMx: a comparison in the region of Milan (Italy)

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91	USA	A test of thermodynamic equilibrium models and 3-D air quality models for predictions of aerosol NO ₃ -
93	Finland	An approach to simulation of long range atmospheric transport of natural allergens: an example of birch pollen
111	Germany	Parameterisation and numerical treatment of aerosol-cloud-chemistry interactions in regional chemistry-transport models
120	Japan	Simulations of atmospheric impacts caused by the eruption of Miyakejima volcano over Far East Asia
128	Canada	Regional Modelling of Particulate Matter with Size-resolved Multi-component Aerosol Simulation System (SMASS)
51	Germany	PM - measurement campaign HOVERT: transport analysis of aerosol components by use of the CTM REM-Calgrid
TOPIC 5 - New Developments (microscale to global scale, new models, new extensions to existing models, inverse modelling, data assimilation)		
10	Bulgaria	Comparison of modelled aggregated turbulent fluxes and measured turbulent fluxes at different heights in an urban area
30	Germany	Kalman Filter based sensitivities studies of CTM input parameters and its benefit for the improvement of the model's formulation
43	Canada	Atmospheric transport and dispersion modelling in Canada: from emergency response and nuclear treaty verification to air quality prediction
56	USA	Linking the Eta Model with the Community Multiscale Air Quality (CMAQ) Modeling System: Boundary condition for ozone concentration
61	USA	Mixing in very stable conditions
68	Canada	Air quality ensemble forecast over the Lower Fraser Valley, British Columbia, Canada.
73	Canada	Developments and results from a Global Multiscale Air Quality Model (GEM-AQ)
76	USA	A new time stepping algorithm for air quality models
78	USA	A next generation air quality forecasting numerical model based on WRF

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95	Finland	An example of application of data assimilation technique and adjoint modelling to an inverse dispersion problem based on the ETEX experiment
103	Italy	Micro-Swift-Spray (MSS) a new modelling system for the simulation of dispersion at microscale: general description and validation
107	Greece	New developments on RAMS-Hg model
112	USA	Adaptation of analytic diffusivity formulations to Eulerian grid model layers of finite thickness
122	Italy	Ensemble dispersion modeling "All for one, one for all!"
80	USA	Temporal signatures of air quality observations and model outputs: How well do air quality models capture relevant time scales?
98	France	Wind tunnel study of the exchange between a street canyon and the external flow: the role of atmospheric turbulence versus shear layer instabilities
TOPIC 6 - Model Assessment and Verification (model assessment, design of field experiments, use of on-site meteorological data, limits to predictability)		
4	USA	Testing physics and chemistry sensitivities in the U.S. EPA Community Multiscale Air Quality Modeling System (CMAQ)
9	UK	Limitations of air pollution episodes forecast due to boundary-layer parametrisations implemented in mesoscale meteorological models
15	Canada	Real-time regional air quality modelling in support of the ICARTT 2004 campaign
17	USA	A performance evaluation of the 2004 release of Models-3 CMAQ
25	USA	An operational evaluation of the Eta-CMAQ air quality forecast model
33	USA	Evaluation of model performance utilizing objective reduction of the dimensionality of the space-time domain
35	Canada	Modelling cloud processing of gases and aerosols in a regional air quality model: evaluation against aircraft measurements
41	USA	Evaluation of an annual simulation of particulate matter over the continental U.S. – Which spatio-temporal features can be captured?

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44	Canada	Evaluation of CMAQ PM results using size-resolved field measurement data: the particle diameter issue and its impact on model performance assessment
47	UK	The UK Met Office's next generation atmospheric dispersion model NAME III
62	Canada	AURAMS/Pacific 2001 Measurement Intensive Comparison
65	Canada	Operational data assimilation of ground-level ozone over North America
67	Belgium	Sensitivity analysis of the EUROS model for the 2003 summer smog episode in Belgium
69	Brazil	Analyzing the validity of similarity theories in a complex topography
72	Greece	The effect of the street canyon length on the street scale flow field and air quality: a numerical study
85	USA	High time-resolved comparisons for in-depth probing of CMAQ fine-particle and gas predictions
123	France	Modelling study of aerosol and gaseous species distribution over an urban area in South-Eastern France (ESCOMPTE Campaign)
92	USA	Comparison of Models-3/CMAQ simulation results with observations: Winter 2002 and Summer 1999
POSTERS		
TOPIC 1 - Role of Atmospheric Models in Air Pollution Policy and Abatement Strategies (air quality, risk assessment, emergency responses)		
16	Slovenia	Use of Lagrangean particle model instead of Gaussian model for radioactive risk assessment in complex terrain
52	USA	Study of air pollutant transport in Northern and Western Turkey
54	Denmark	Source term assessment from off-site gamma radiation measurements
63	Germany	Advanced atmospheric dispersion modelling and probabilistic consequence analysis for radiation protection purposes in Germany
88	Spain	Determination of the impact of different emission sources in the air quality concentrations: the TEAP tool

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TOPIC 2 - Integrated Regional Modelling (local and urban effects, mesoscale phenomena, regional modelling, one and two way nesting, application of existing models)		
11	Spain	Preparation of emission data for modelling from Spain's emission inventories and emission projections
12	Spain	Methodology to evaluate future air quality through emission projections with an application to the Spanish case up to 2020
45	Czech Republic	Computational modelling of airflow in urban street canyon and comparison with measurements
96	Spain	Pollutant dispersion in a heavily industrialised region: comparison of different models
97	Spain	Study of odor episodes using analytical and modeling approaches
105	Argentina	Application of back-trajectories techniques to the characterization of the regional transport of pollutants to Buenos Aires, Argentina
117	USA	Photochemical modeling analysis of a high ozone episode affecting a semi-arid coastal urban area in South Texas
TOPIC 3 - Effects of Climate Change on Air Quality (including global and long-range transport)		
3	Spain	Application of source-receptor techniques to the assessment of the potential source areas in Western Mediterranean
TOPIC 4 - Aerosols as Atmospheric Contaminants (human exposure and health effects, direct and indirect climate effects, visibility reduction)		
118	USA	Application of the Potential Source Contribution Function (PSCF) Model to the 2002 haze events in Texas
TOPIC 5 - New Developments (microscale to global scale, new models, new extensions to existing models, inverse modelling, data assimilation)		
20	Brazil	Influence of the autocorrelation function in the derivation of fundamental relationship $e \mu \text{ sv}^2/\text{Co TLv}$
28	Italy	Concentration fluctuations in a turbulent flow
36	Brazil	A model for describing the evolution of the energy density spectrum in the convective boundary layer growth
71	Brazil	Simulation of the dispersion pollutants considering nonlocal effects in the solution of the advection-diffusion equation
99	Canada	Application of a systematic approach to develop an artificial Neural Network Model for ground-level ozone in Edmonton, Alberta, Canada

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110	Germany	Comparison of different approaches for the simulation of multiphase cloud processes using SPACCIM
TOPIC 6 - Model Assessment and Verification (model assessment, design of field experiments, use of on-site meteorological data, limits to predictability)		
26	Canada	Skill's comparison of three Canadian regional air quality models over eastern North America for the summer 2003
32	Canada	Region based method for the verification of air quality forecasts
38	Czech Republic	On the comparison of nesting of lagrangian air-pollution model SMOG to numerical weather prediction model ETA and eulerian CTM CAMx to NWP model MM5: ozone episode simulation
50	Canada	High resolution air quality simulations with MC2-AQ and GEM-AQ
57	Korea	Impacts of horizontal spatial resolution on the derivation of source-receptor relationship
75	Italy	Nonlinear models to forecast ozone concentration peaks
79	Italy	Application of a Lagrangian Particle Model (SPRAY) and Neural Network to evaluate the impact of an industrial emission
94	Canada	Evaluation of MC2 profile data during the Pacific 2001 field study
REJECTED		
1	Jordan	Effect of traffic characteristics and road geometric parameters on developed traffic noise levels
2	Italy	A microscale model for VOC air pollution in urban areas
5	Indonesia	Air pollution in Jakarta
31	Italy	Climate of cities urban heat island and urban induced precipitation: effect on humanity
49	Belarus	Projection of urban air quality in the cities of Belarus

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55	Romania	Air pollution in Bucharest
82	Yugoslavia	The influence of the averaging period on calculation of air pollution using a puff model
86	Russia	The spatial procedure of three-dimension correction of precipitation by analysis of observation data for hemisphere and regional pollution transfer modeling
89	India	Numerical study of vertical dispersion of air pollutants with variable eddy diffusibility
102	Italy	A neuro-fuzzy model for ozone forecasting
109	Mexico	The Mexican experience with air dispersion modeling for impact assessment
113	Russia	Stochastic model of traffic flows and evaluation of environment influence
115	Turkey	Statistical analyses of the wet and bulk deposition on different regions of İstanbul, Turkey
116	Turkey	Modeling of industrial SO ₂ emissions and TUPRAS fire releases during 1999 earthquake in Gebze-Kocaeli, Turkey
124	Algeria	The study of the air pollution by the burnt gases from the natural gas plant of Arzew-Algeria and the evaluation of the risks of the environment
125	Algeria	THE STUDY OF THE PRINCIPAL SOURCES OF THE ATMOSPHERICAL POLLUTION IN THE INDUSTRIAL ZONE OF ARZEW-ALGERIA.

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