

HARMO18 – Programme: poster presentations on 04.10.2017

List of Topics:

TOPIC 1. Model evaluation and quality assurance – model validation, model intercomparisons, model uncertainties and model sensitivities.

TOPIC 2. Environmental impact assessment: Air pollution management and decision support systems.

TOPIC 3. Use of modelling in support of EU air quality directives, including FAIRMODE activities.

TOPIC 4. Parametrization of physical processes in mesoscale meteorology relevant for air quality modelling.

TOPIC 5. Urban scale and street canyon modelling: Meteorology and air quality.

TOPIC 6. Use of modelling in health and exposure assessments

TOPIC 7. Inverse dispersion modelling and source identification.

TOPIC 8. Modelling air dispersion and exposure to accidental releases.

TOPIC 9. Modelling of passive control systems (PCS) including nature-based solutions in dispersion studies

TOPIC 10. Mathematical problems in air quality modelling.

TOPIC 11. Highlights of past work. Session devoted to reviews and to prominent scientists and ‘golden papers’ of the past, which have still relevance and should not be forgotten.

POSTER PRESENTATIONS: posters will be displayed in the coffee-break area in order to have open poster sessions during all breaks and for the full conference time.

MONDAY 09.10.2017		
09:00	09:30	Opening
11:00	11:30	POSTER Session & Coffee-break
13:10	14:20	Lunch-break & Poster Session
16:00	16:50	POSTER Session & Coffee-break
20:00	23:00	ICE BREAKING
TUESDAY 10.10.2017		
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15:50	16:40	POSTER Session & Coffee-break
WEDNESDAY 11.10.2017		
10:40	11:10	POSTER Session & Coffee-break
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16:00	16:30	POSTER Session & Coffee-break
20:00	23:00	SOCIAL DINNER
THURSDAY 12.10.2017		
10:40	11:10	POSTER Session & Coffee-break
12:50	14:00	Lunch-break & Poster Session
15:40	16:00	Closing and END of Conference
16:00	16:30	Coffee-break

TOPIC 1. Model evaluation and quality assurance – model validation, model intercomparisons, model uncertainties and model sensitivities

- H18-038** NUMERICAL SIMULATION OF FLOW AND DISPERSION AROUND AN ISOLATED CUBICAL BUILDING UNDER NEUTRAL STABILITY: STUDY OF THE SENSITIVITY OF THE K-W SST TURBULENCE MODEL TO ITS EMPIRICAL CONSTANTS
Israel Costa, N. C. Reis, J. M. Santos, K. C. E. S. Rodrigues, B. Furieri, E. R. Lovatte, H. Dourado
- H18-060** PRELIMINARY EVALUATION OF CMAQ MODELLED WET DEPOSITION OF SULPHUR AND NITROGEN OVER BULGARIA
Emilia Georgieva, Elena Hristova, Dimiter Syrakov, Maria Prodanova, Ekaterina Batchvarova
- H18-065** SOIL DEPOSITION ESTIMATES OF PCDD/F: COMPARISON BETWEEN THE RESULTS OBTAINED WITH DIFFERENT ATMOSPHERIC DISPERSION MODELS (ISC3ST, AERMOD, ADMS).
Franco Giovannini, Andrea Lupi, Antongiulio Barbaro
- H18-083** VALIDATION OF FLUIDYN-PANACHE CFD MODEL AGAINST LARGE-SCALE AND WIND TUNNEL EXPERIMENTS
Liyang Chen, Malo Le Guellec
- H18-088** A NEW PHYSICALLY BASED WET DEPOSITION SCHEME FOR THE LAGRANGIAN RANDOM DISPLACEMENT MODEL PELLO
Pontus von Schoenberg, Håkan Grahn, Niklas Brännström
- H18-093** SENSITIVITY OF THE CAMX PHOTOCHEMICAL MODEL TO METEOROLOGICAL AND EMISSION PARAMETERISATION AND ITS EFFECTS ON FORECAST OF PM10 ACUTE POLLUTION EVENTS. APPLICATION AND INTERCOMPARISON OF TWO MODELLING SYSTEMS IN THE VENETO REGION.
Silvia Pillon, Dalla Fontana A., Balzarini A., Toppetti A.M., Pirovano G.
- H18-114** APPLICATION OF DEGREE-DAY FACTORS FOR RESIDENTIAL EMISSION ESTIMATE AND AIR QUALITY FORECASTING
Marciej Kryza, Małgorzata Werner, Anthony J. Dore
- H18-118** APPLICABILITY EVALUATION OF GAUSSIAN PLUME MODEL (XOQDOQ) FOR RADIOLOGICAL IMPACT ASSESSMENT OF RADIOACTIVE MATERIALS AROUND THE NUCLEAR POWER PLANT SITE WITH THE COMPLEX TERRAIN IN KOREA
Gab-Bock Lee, Jeong-Mi KIM, Yang-Hee YANG, Hyun-Jun JO, Hyeong-Jin KIM

- H18-125** EVALUATION OF THE GRAMM-GRAL SYSTEM IN AN URBAN SYDNEY CONTEXT
Francine Manansala, Dr Paul Boulter, Jane Barnett, Christian Kurz
- H18-131** 2ND ATM CHALLENGE 2016
Christian Maurer
- H18-132** EVALUATION OF THE OPERATIONAL SEMIEMPIRICAL URBAN STREET (SEUS) AIR POLLUTION MODEL USING DATA FROM TWO STREET CANYONS
Nicolás Mazzeo
- H18-155** VERTICAL TEMPERATURE PROFILE OVER VERY COMPLEX TERRAIN AS INPUT IN A DISPERSION MODELLING SYSTEM – NWP MODELLING USING WRF AND VALIDATION WITH RASS AND TRADITIONAL HIGH TOWER
Boštjan Grašič, Primož Mlakar, Marija Zlata Božnar
- H18-169** SKILL AND UNCERTAINTY OF THE REGIONAL AIR QUALITY FORECAST SYSTEM FOR THE APULIA REGION (ITALY)
Ilenia Schipa, Angela Morabito, Annalisa Tanzarella, Francesca Intini, Alessio D’Allura, Camillo Silibello, Matteo Paolo Costa, Roberto Giua
- H18-184** THE BOLZANO TRACER EXPERIMENT (BTEX): AN EXPERIMENT ON TRACER GAS DISPERSION FROM AN INCINERATOR STACK AND ON ITS REAL-TIME MODELLING
Elena Tomasi, Gianluca Antonacci, Lorenzo Giovannini, Marco Falocchi, Stefano Alessandrini, Enrico Ferrero, Dino Zardi
- H18-196** NEW INTEGRATED EMISSION PROCESSOR FOR AIR QUALITY MODELS
Ondřej Vlček, Nina Benešová, Michal Belda, Peter Huszár, Jaroslav Resler, Pavel Juruš, Pavel Krč, Kryštof Eben
- H18-202** EMISSION PROJECTIONS AND LIMIT VALUES OF AIR POLLUTION CONCENTRATIONS – A CASE STUDY WITH EMEP4PL
Malgorzata Werner, Marciej Kryza, Peter Wind
- H18-209** VALIDATION OF THE LAGRANGIAN PARTICLE MODEL LAPMOD AGAINST THE FULL SET OF SHORT TERM AND LONG TERM KINCAID TRACER RELEASES
Roberto Bellasio, Roberto Bianconi
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TOPIC 2. Environmental impact assessment: Air pollution management and decision support systems.

- H18-008** FUTURE MORTALITY DUE TO AIR POLLUTION UNDER CLIMATE POLICIES
Lara Aleluia Da Silva Reis
- H18-044** ASSESS THE IMPACT OF DIFFERENT EMISSION SCENARIOS ON AIR QUALITY AND CROP YIELDS IN BULGARIA USING TM5-FASST TOOL
Reneta Dimitrova, Svetoslav Botev
- H18-047** IMPACT OF ELECTROMOBILITY EXPANSION STRATEGIES ON AIR POLLUTION IN POLAND
Pawel Durka, Joanna Struzewska, Jacek W. Kaminski
- H18-050** THE INFLUENCE OF METEOROLOGICAL CONDITIONS ON EXTREME HIGH PM₁₀ CONCENTRATIONS IN THE HUNGARIAN URBAN AREAS
Zita Ferenczi, László Bozó
- H18-055** CONTRIBUTION OF DIFFERENT EMISSION SOURCES TO THE ATMOSPHERIC COMPOSITION FORMATION IN CITY OF SOFIA
Georgi Gadjev, Kostadin Ganev, Nikolay Miloshev
- H18-063** IMPACT ASSESSMENT OF POLLUTANT EMISSIONS IN THE ATMOSPHERE FROM A COGENERATION PLANT STACKS OVER A COMPLEX TERRAIN
Grazia Ghermandi, Sara Fabbi, Barbara Arvani, Giorgio Veratti, Alessandro Bigi, Sergio Teggi
- H18-075** MONITORING OF GREENHOUSE GAS EMISSIONS IN RECIFE (BRAZIL) – CARBOCOUNT CITY RECIFE PROJECT
Felix Vogel, Frédéric Baron, Gregoire Broquet, Johannes Staufer, Lola Bregonzio Rozier, Philippe Ciais, Paulo Roberto Pereira Barros e Silva, Simone Nascimento de Souza, Fanny Velay-Lasry, Larissa Zanutto de Oliveira, Samya de Lara Lins de Araújo Pinheiro, Vanessa Cezario Felix
- H18-124** ASSESSING ATMOSPHERIC ASSIMILATIVE CAPACITY TO AIR POLLUTANTS EMITTED FROM COAL POWER PLANTS IN THE SOUTH OF BRAZIL: USING CALPUFF AS A DECISION SUPPORT TOOL IN THE ENVIRONMENTAL PERMITTING PROCESS.
Rafael Freire de Macêdo, Rita de Cássia Marques Alves, Gabriel Munchow Bunow, Ricardo Antônio Mollmann Júnior, Michel Souza Marques, Felipe Ramos Nabuco Araújo

- H18-154** **MODELLING AND EVALUATION OF EMISSION SCENARIOS DERIVING FROM WOOD BIOMASS BOILERS IN ALPINE VALLEY**
Federica Pognant, Bo Matteo, Nguyen Chi Vuong, Pietro Salizzoni, Marina Clerico
- H18-177** **RIAT+ AND PAIR2020: AN INTEGRATED ASSESSMENT TOOL USEFULL FOR AIR QUALITY PLANNING**
Michele Stortini, Marco Deserti, Simona Maccaferri, Enrico Minguzzi
- H18-178** **A MODELING STUDY ON BEHAVIOUR OF ATMOSPHERIC AMMONIA AS A PRECURSOR FOR PM_{2.5}**
Takeru Suzuki, Tatsuya Sakurai
- H18-179** **PERFORMANCE EVALUATION OF A MODELLING SYSTEM FOR AIR QUALITY FORECASTING AND AIR POLLUTION WARNING DURING PARTICULAR WINDY DAYS, IN A HIGHLY INDUSTRIALIZED AREA.**
Annalisa Tanzarella, Angela Morabito, Ilenia Schipa, Francesca Intini, Micaela Menegotto, Andrea Tateo, Tiziano Pastore, Gianni Tinarelli, Alessio D'Allura, Matteo Paolo Costa, Camillo Silibello, Roberto Giua
- H18-193** **MULTISCALE AIR QUALITY IMPACT FROM POWER PLANTS IN CITIES**
Fanny Velay-Lasry, A. Albergel, W. Gao, F.H. Geng, L. Gwendoline, M. Liu, A-S Saffre, B. R. Schwegler, Z.Q.Yu, Q. J. Zhang
- H18-205** **MODELING STUDY ON THE CHARACTERISTICS OF OZONE POLLUTION IN TOKYO METROPOLITAN AREA**
Misato Yoshioka, Tatsuya Sakurai
- H18-208** **IMPACTS ON AIR QUALITY DUE TO AVIATION EMISSIONS**
Amela Jeričević, Goran Gašparac
- H18-210** **ANALYSIS OF AN ACUTE PM EVENT OVER NORTHERN ITALY: THE CASE STUDY OF 24TH JANUARY- 4TH FEBRUARY 2017**
Tony Christian Landi, Enrico Minguzzi, Michele Stortini, Roberta Amorati, Marco Deserti,
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TOPIC 3. Use of modelling in support of EU air quality directives, including FAIRMODE activities.

- H18-021** **A PROPOSAL TO OVERCOME THE AMBIGUITY OF THE AEROSOL AND COMMUNICATE IT MORE EASILY, WITH THE HELP OF CAPTAIN SANKEY**
Giovanni Bonafè, Michele Stortini

- H18-023** A DASHBOARD FOR NEAR-REAL-TIME AIR POLLUTION EPISODES ANALYSIS AND SUPPORT TO DECISION MAKING
Giovanni Bonafè, Massimo Enrico Ferrario
- H18-025** AIR QUALITY IN SPECIAL ENVIRONMENTS - CO₂ IN A TOURIST KARST CAVE WITH A MILLION VISITORS
Marija Zlata Božnar, Primož Mlakar, Boštjan Grašič, Dragana Kokal, Franci Gabrovšek
- H18-087** EFFECTS OF TRAFFIC EMISSION REDUCTION ON URBAN AIR QUALITY EPISODE USING WRF/CHEM IN MADRID (SPAIN)
Roberto San José, Juan L. Pérez, Libia Pérez
- H18-098** USING THE SHERPA TOOL TO SUPPORT THE AIR QUALITY PLAN OF BUDAPEST
Emese Homolya, Zita Ferenczi
- H18-112** FIRST OUTCOMES OF THE FAIRMODE & AQUILA INTERCOMPARISON EXERCISE ON SPATIAL REPRESENTATIVENESS
Oliver Kracht, José Luis Santiago, Fernando Martin, Antonio Piersanti, Giuseppe Cremona, Gaia Righini, Lina Vitali, Kevin Delaney, Bidroha Basu, Bidisha Ghosh, Wolfgang Spangl, Christine Brendle, Jenni Latikka, Anu Kousa, Erkki Pärjälä, Miika Meretoja, Laure Malherbe, Laurent Letinois, Maxime Beauchamp, Fabian Lenartz, Virginie Hutsemekers, Lan Nguyen, Ronald Hoogerbrugge, Kristina Eneroth, Sanna Silvergren, Hans Hooyberghs, Peter Viaene, Bino Maiheu, Stijn Janssen, David Roet and Michel Gerboles
- H18-113** PM₁₀ SMOG EPISODES IN SLOVAKIA IN JANUARY 2017 – AN ANALYSIS USING DISPERSION MODELLING
Jana Krajčovičová, Martin Kremler, Jana Matejovičová, Vladimír Nemček
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TOPIC 4. Parametrization of physical processes in mesoscale meteorology relevant for air quality modelling.

- H18-018** METEOROLOGY AND AIR POLLUTION AT A COASTAL SITE - EXPERIMENT AND MODELING
Ekaterina Batchvarova, Damyan Barantiev, Hristina Kirova, Maria Kolarova, Elena Hristova, Dimiter Syrakov, Maria Prodanova, Emilia Georgieva, Claudia Calidonna, Ivano Ammoscato, Elenio Avolio, Daniel Gulli, Teresa Lo Feudo, Claudia Rosa Torcasio
- H18-161** EVALUATION OF WRF-CHEM MODEL AGAINST DATA DURING A HIGH PM₁₀ EPISODE IN SOUTHERN ITALY.
Umberto Rizza, C.Mangia, P.Ielpo, M.M.Miglietta, F.Grasso, G.Passerini, M. Morichetti, C. Iachini, S. Virgili, F. de Tomasi, G.P. Gobbi, F. Barnaba, L. Di Liberto
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TOPIC 5. Urban scale and street canyon modelling: Meteorology and air quality.

- H18-026** CFD MODELLING OF THE IMPACT OF URBAN HEDGEROWS ON AIR QUALITY IN AN IDEALIZED STREET CANYON
Riccardo Buccolieri, Elisa Gatto, Paolo Maria Congedo, Cristina Baglivo, Christof Gromke
- H18-032** EXPERIMENTAL STUDY OF FLOW AND DISPERSION IN REGULAR ARRAYS OF RECTANGULAR BUILDINGS
Matteo Carpentieri, Paul Hayden, Alan G. Robins
- H18-043** EXPERIMENTAL INVESTIGATION OF TURBULENCE AND DISPERSION AROUND AN ISOLATED CUBIC BUILDING
Annalisa Di Bernardino, Paolo Monti, Giovanni Leuzzi, Simone Ferrari, Marlene Scanu
- H18-057** THE AIR QUALITY IN URBAN CANYONS WITH TIGHT AND WIDE BUILDINGS
Michela Garau, M.G.Badas, S.Ferrari, A.Seoni, G.Querzoli
- H18-064** VEHICULAR EXHAUST IMPACT SIMULATED AT MICROSCALE FROM TRAFFIC FLOW AUTOMATIC SURVEYS AND EMISSION FACTOR EVALUATION
Grazia Ghermandi, Sara Fabbi, Giulia Baranzoni, Giorgio Veratti, Alessandro Bigi, Sergio Teggi, Carla Barbieri, Luca Torreggiani
- H18-066** EFFECTS OF INCREASING THE SURFACE REFLECTANCE OVER AIR QUALITY LEVELS USING WRF-BEM/AEMM/CMAQ. APPLICATION OVER THE CITY OF MADRID.
Marian Ángeles González, Raúl Arasa, Pablo Campra
- H18-070** STUDY OF THE RELATIONSHIP BETWEEN TURBULENCE AND REACTIVE POLLUTANT DISPERSION IN AN URBAN STREET CANYON USING LARGE-EDDY SIMULATIONS
Beom-Soon Han, Jong-Jin Baik
- H18-076** NARAC'S URBAN DISPERSION MODELING CAPABILITY
Akshay Gowardhan
- H18-090** COMBINING GAUSSIAN AND CFD MODELLING TO ASSESS THE IMPACT OF ROADSIDE SCREENS IN A CONCRETE CASE STUDY IN GHENT, FLANDERS.
Bino Maiheu, Stijn Vranckx, Wouter Lefebvre

- H18-094** EVALUATION OF THE GRAL MODEL IN URBAN STREET CANYONS WITH MEASURED METEOROLOGICAL DATA AND NOX CONCENTRATIONS
Carina Harringer, Christian Kurz
- H18-099** PMSS MICRO-SCALE SIMULATIONS OF POLLUTANTS EMITTED BY FIREPLACES LOCATED IN THE URBAN RESIDENTIAL AREA OF TORCHIAROLO (APULIA REGION, ITALY)
Francesca Intini, Angela Morabito, Gianni Tinarelli, Annalisa Tanzarella, Ilenia Schipa, Alessio D'Allura, Vito La Ghezza, Tiziano Pastore, Rossella Paolillo, Alessandra Nocioni, Roberto Giua
- H18-103** NUMERICAL MODELLING OF TRANSIENT POLLUTANT DISPERSION IN URBAN STREET INTERSECTION WITH DETAIL INCLUSION OF TRAFFIC DYNAMIC
Jiri Pospisil, Miroslav Jicha
- H18-104** AN OPENFOAM CFD SYSTEM FOR SIMULATING ATMOSPHERIC POLLUTANT DISPERSION IN THE URBAN CANOPY
Genora Joseph, David Hargreaves
- H18-105** AIR EXCHANGE MECHANISM IN 3-D COMPLEX ARRAY
Klára Jurčáková, Štěpán Nosek, Radka Kellnerová, Zbyněk Jaňour, Libor Kukačka
- H18-117** URBANOVA: INTEGRATION OF SMART CITY SENSORS AND AIR QUALITY MODELING IN A WESTERN US CITY
Brian Lamb, Von Walden, Joseph Vaughan, Yunha Lee, Tom Jobson, Dennis Crain, Farren Herron-Thorpe
- H18-145** PERFORMANCES OF PARAMETRIC LAWS FOR COMPUTING THE WIND SPEED PROFILE IN THE URBAN BOUNDARY LAYER. COMPARISON TO THREE-DIMENSIONAL BUILDING WATER CHANNEL EXPERIMENT.
Annalisa Di Bernardino, Armando Pelliccioni, Paolo Monti, Giovanni Leuzzi
- H18-146** CHARACTERIZATION OF TURBULENCE SPECTRUM OF INDOOR AND OUTDOOR WIND COMPONENT
Armando Pelliccioni, Claudio Gariazzo
- H18-148** EVALUATION OF OPENFOAM AGAINST CODASC WIND TUNNEL DATA BASE AND IMPACT OF HEATING ON THE FLOW IN AN IDEALIZED STREET CANYON
Anton Petrov
- H18-150** CLUSTERING OF ATMOSPHERIC AND EMISSION CONDITIONS THAT LEAD TO MODELLED PEAK OZONE CONCENTRATIONS
Andrea Pineda Rojas, Nicolás A. Mazzeo

- H18-164** **MODELLING REACTIVE POLLUTANTS DISPERSION IN AN URBAN HOT-SPOT IN SUMMER CONDITIONS USING A CFD MODEL COUPLED WITH METEOROLOGICAL MESOSCALE AND CHEMISTRY-TRANSPORT MODELS**
Beatriz Sanchez, J.L. Santiago, F. Martín, A. Martilli, C. Quaassdorff, D. de la Paz, R. Borge
- H18-165** **CFD MODELLING OF EFFECTS ON NOX CONCENTRATION OF PHOTOCATALYTIC MATERIALS APPLIED TO A SIDEWALK PAVEMENT AND A BRICK WALL IN A REAL STREET CANYON**
Beatriz Sanchez, Beatriz Sanchez, Jose Luis Santiago, Alberto Martilli, Manuel Pujadas, Magdalena Palacios, Lourdes Núñez, Mónica Germán, Benigno Sánchez, Rafael Muñoz
- H18-168** **REAL SCALE TESTS OF THE DEPOLLUTING CAPABILITIES OF A PHOTOCATALYTIC SIDEWALK PAVEMENT AND A FACADE IN AN URBAN SCENARIO**
Manuel Pujadas, Magdalena Palacios, Lourdes Núñez, Mónica Germán, Jaime Fernández-Pampillón, Beatriz Sanchez, Jose-Luis Santiago, Benigno Sánchez, Rafael Muñoz, Félix Moral, Guzmán Arias
- H18-195** **μ-MO ASSESSING THE CONTRIBUTION OF NOX TRAFFIC EMISSION TO ATMOSPHERIC POLLUTION IN MODENA BY MICROSCALE DISPERSION MODELLING**
Giorgio Veratti, Sara Fabbì, G. Tinarelli, Alessandro Bigi, Sergio Teggi, G. Brusasca, Grazia Ghermandi
- H18-197** **STREET-LEVEL ASSESSMENT OF URBAN SCENARIOS ON THERMAL COMFORT AND AIR QUALITY BY THE MEANS OF NEWLY DEVELOPED URBAN SURFACE MODEL FOR LES MODEL PALM**
Nina Benešová, Jaroslav Resler, Pavel Krč, Michal Belda, Pavel Juruš, Ondřej Vlček, Daša Damašková, Kryštof Eben, Přemysl Derbek
- H18-203** **PARAMETERIZATION STUDY OF CHEMICALLY REACTIVE POLLUTANT DISPERSION USING LARGE-EDDY SIMULATION**
Zhangquan Wu, Chun-Ho Liu
- H18-214** **THE IMPACT OF URBAN CANOPY METEOROLOGICAL FORCING ON THE URBAN GAS-PHASE CHEMISTRY**
Peter Huszar, Jan Karlicky, Tatsiana Bardachova, Michal Belda, and Tomas Halenka
- H18-220** **THE USE OF ULTRA-FAST RESPONSE ON-BOARD EXHAUST GAS ANALYZERS WITH ENHANCED SPATIAL AND TEMPORAL RESOLUTION FOR ACCURATE DEPOSITION MEASUREMENTS OF ROAD TRAFFIC POLLUTANTS**
Martin Irwin, Mark S Peckham, Harry Bradley, Matthew
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TOPIC 6. Use of modelling in health and exposure assessments

- H18-062 IMPACT OF THE AIR POLLUTION ON THE QUALITY OF LIFE AND HEALTH RISKS IN BULGARIA
Ivelina Georgieva, Vladimir Ivanov
- H18-106 MODELLING THE AIR QUALITY FOR ASSESSING THE URBAN PUBLIC HEALTH IMPACT: A CASE OF URBAN REGENERATION IN TALLINN, ESTONIA
Marko Kaasik, Mihkel Pindus, Tanel Tamm, Hans Orru
- H18-133 EXTRAPOLATING TIME-AVERAGED AIR POLLUTION CONCENTRATIONS
Nicolás Mazzeo, Andrea L. Pineda Rojas
- H18-219 ASSESSMENT OF THE HEALTH IMPACTS FROM AIR POLLUTION IN RAVENNA (ITALY) USING THE EVA MODEL
Marta Behjat, Jørgen Brandt, Jesper H. Christensen, Ulas Im, Alberto Modelli, Massimo Andretta
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TOPIC 7. Inverse dispersion modelling and source identification.

- H18-138 COUPLING CFD SOLUTIONS WITH THE RENORMALIZATION INVERSION TECHNIQUE IN AN URBAN LIKE ENVIRONMENT
Nadir Bekka, Pramod Kumar, Amir-Ali Feiz, Pierre Ngae, Mohamed Sellam, Amer Chpoun, Hamza Kouichi, Sarvesh Singh, Grégory Turbelin, Jean-Pierre Issartel
- H18-207 IDENTIFICATION OF MULTIPLE OUTDOOR CONTAMINANT SOURCES WITH MONITORING STATION DATA
Yu Xue, Zhiqiang (John) Zhai
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TOPIC 8. Modelling air dispersion and exposure to accidental releases.

- H18-002** UNDERSTANDING THE DISPERSION OF MATERIAL FROM A BUILDING IN CHANGING METEOROLOGICAL CONDITIONS
Simon Batchelor, Bryan Lingard
- H18-010** MULTI-SCALE MODELLING POLLUTANT DISPERSION AND EXPOSURE AGAINST AN ACCIDENTAL TOXIC RELEASE IN AN ADMINISTRATION BUILDING USING LARGE EDDY SIMULATION AND EVACUATION MODELS
Christos Argyropoulos, Atif M. Ashraf, Konstantinos E. Kakosimos
- H18-046** DEVELOPMENT OF A GENERIC MODELLING CHAIN FOR WEATHER PREDICTION AND POTENTIAL ATMOSPHERIC DISPERSION FROM THE MESO-SCALE TO LOCAL SCALE WITH APPLICATIONS TO REAL ACCIDENTAL SITUATIONS IN FRANCE AND SPAIN
Christophe Duchenne, Patrick Armand
- H18-054** MATHEMATICAL MODELLING OF ODOROUS GASES AND PARTICULATE MATTER FROM AREA SOURCES IN URBAN ENVIRONMENTS USING AERMOD – WASTEWATER TREATMENT PLANTS AND TRAFFIC ROADS
Bruno Furieri, Enilene R. Lovatte, Maria Clara S. F. Caliman, Karoline M. Tonani, Leonardo P. Rigo, Nathalia S. Covre and Rodrigo A. Costa, Lya Lugon
- H18-097** DISPERSION OF LOCALISED RELEASES IN A STREET NETWORK: OVERVIEW OF THE DIPLOS PROJECT
Denise Hertwig, Vladimír Fuka, Torsten Auerswald, Paul Hayden, Matteo Carpentieri, T. Glyn Thomas, Stephen Belcher, Lionel Soulhac, Pietro Salizzoni, Ian Castro, Zheng-Tong Xie, Alan Robins, Omduth Coceal
- H18-122** WEATHER INDUCED WIDE SPREAD NUCLEAR FALLOUT EFFECTS
Peter Loveland
- H18-126** MODELLING EXPOSURE TO THE INDUSTRIAL ACCIDENTAL RELEASE OF ARSENIC OCCURRED AT MANFREDONIA (ITALY) IN 1976: LESSONS LEARNED.
Cristina Mangia, Marco Cervino, Emilio Antonio Luca Gianicolo, Giuseppe Delle Noci, Maurizio Portaluri
- H18-140** UNCERTAINTY STUDIES FOR ATMOSPHERIC DISPERSION MODEL WITH MONTE CARLO METHOD
Ngoc Bao Tran Le, Irène Korsakissok, Vivien Mallet, Anne Mathieu, Damien Didier, Raphaël Périllat
- H18-162** COMPARING DIFFERENT METHODS OF CALCULATING ATMOSPHERIC DISPERSION IN SINAC
Csilla Rudas, P. Szántó, S. Deme, A. László, T. Pázmándi, Cs. Rudas

H18-190 A PERFORMANCE EVALUATION OF THE HPAC AND QUIC MODELS USING THE MUST TRIALS DATA

Belinda Tull, Paul Suden, Murray Purves

TOPIC 9. Modelling of passive control systems (PCS) including nature-based solutions in dispersion studies

H18-004 MODELLING OF POLLUTANT REDUCTION BY VEGETATION IN OPEN ROAD CONDITIONS

KV Abhijith, Prashant Kumar

H18-074 THE INFLUENCE OF THE TREE CROWN ON THE CO CONCENTRATION IN STREET CANYON

Beatrice Pulvirenti, Silvana Di Sabatino

H18-167 URBAN VEGETATION EFFECTS ON BLACK CARBON CONCENTRATION IN REAL SCENARIOS: CFD MODELLING AND EXPERIMENTAL MEASUREMENTS

Jose Luis Santiago, E. Rivas, F. Martin, R. Alonso, H. Calvete-Sogo, D. Elustondo, E. Baquero, M. Serrano

TOPIC 10. Mathematical problems in air quality modelling.

H18-183 A SOLUTION OF THE TIME-DEPENDENT ADVECTION-DIFFUSION EQUATION

Tiziano Tirabassi, E.J. Silva, D. Buske, M.T. Vilhena