HARMO 17 PROGRAMME:
ORAL PRESENTATIONS

17th International Conference on
Harmonisation within Atmospheric Dispersion
Modelling for Regulatory Purposes
9-12 May 2016, Budapest, Hungary

Sunday, 8 May 2016	
14:00 – 19:30	**Registration (Danubius Health Spa Resort Margitsziget)**

Monday, 9 May 2016	
8:00 - 9:00	**Registration (Danubius Health Spa Resort Margitsziget)**
9:00 - 9:30	***Opening plenary session: Star Auditorium*** ***Chair: Prof. László Bozó***
	Welcome by the organisers, Opening
	Official words from Dr. Kornélia Radics, President of the Hungarian Meteorological Service,
	Official words from Ministry of Agriculture

9:30 – 10:40	***Plenary session 1, Star Auditorium*** ***Chair: Dr. Helge Olesen***
	Introductory lecture by the representative of the Environment Directorate-General **Topic 1:** Model evaluation and quality assurance – model validation, model intercomparisons, model uncertainties and model sensitivities **Topic 8:** Modelling air dispersion and exposure to accidental releases
9:30 – 10:00	**Philippe Thunis:** Update on the Clean Air for Europe Programme
10:00 – 10:20	**H17-053**: Bernd Leitl, Frank Harms, Denise Hertwig, **Michael Schatzmann**: Field data versus wind tunnel data: The art of validating urban flow and dispersion models
10:20 – 10:40	**H17-096: Silvia Trini Castelli**, Leitl B., Baumann-Stanzer K., Reisin T.G., Armand P., Andronopoulos S., and all COST ES1006 Members**:** Conclusions and reflections from COST Action ES1006 activity: what do we miss for the applications of models in local-scale emergency response in built environments?

10:40 – 11:10	**Coffee/Tea break, Beginning of Poster session: Topic 1, Topic 2, Topic 8 (Magnólia Room)**

11:10 - 12:30	***Parallel session 1, Star Auditorium*** ***Chair: Prof. John Bartzis***	***Parallel session 2, Jázmin Room*** ***Chair: Dr. Fernando Martin***
	Topic 1: Model evaluation and quality assurance – model validation, model intercomparisons, model uncertainties and model sensitivities	**Topic 8:** Modelling air dispersion and exposure to accidental releases
11:10 – 11:30	**H17-006**: **Dietmar Oettl**, Stefan Oitzl: Comparing dispersion modelling and field inspection for odour impact assessment in the vicinity of two animal husbandry farms	**H17-001**: **Scott Chambers**, Alastair Williams, Dan Galeriu, Anca Melintescu, Marin Duma: Radon-based assessment of stability effects on potential radiological releases
11:30 – 11:50	**H17-062**: **Vibha Selvaratnam**, David Thomson, Helen Webster: Validation of the atmospheric dispersion model NAME against long-range tracer release experiments	**H17-059**: **Rachel Batt**, Simon Gant, Jean-Marc Lacome, Benjamin Truchot, Harvey Tucker: CFD modelling of dispersion in neutral and stable atmospheric boundary layers: results for Prairie Grass and Thorney Islan
11:50 – 12:10	**H17-099**: **Miguel A. Hernández-Ceballos**, Stefano Galmarini, Steven Hanna, Thomas Mazzola, Joseph Chang, Roberto Bianconi, Roberto Bellasio: UDINEE project: international platform to evaluate urban dispersion models' capabilities to simulate Radiological Dispersion Device	**H17-104**: **Kirk L. Clawson**, Richard M. Eckman, Dennis D. Finn: Project Sagebrush: A New Look at Plume Dispersion
12:10 – 12.30	**H17-155**: **Albert Oliver**, Raúl Arasa, Agustí Pérez-Foguet, Mª Ángeles González: Simulating large emitters using CMAQ and a local scale finite element model. Analysis in the surroundings of Barcelona	**H17-149**: **Eva Berbekar**, Frank Harms, Bernd Leitl: Spatial and temporal concentration distributions in urban areas

12:30 – 14:00	**Lunch (Platán Restaurant)**

14:00 - 15:40	***Parallel session 3: Star Auditorium*** ***Chair: Prof. Carlos Borrego***	***Parallel session 4: Jázmin Room*** ***Chair: Dr. Bertrand Carissimo***
	Topic 1: Model evaluation and quality assurance – model validation, model intercomparisons, model uncertainties and model sensitivities	**Topic 8:** Modelling air dispersion and exposure to accidental releases
14:00 – 14:20	**H17-014**: Liying Chen, Malo Le Guellec, (**Amita Tripathi**): Validation of PANACHE CFD pollution dispersion modelling with dense gas experiments	**H17-034**: **Luc Patryl**, Emmanuel Lapébie, Patrick Armand: Simulation of explosive events in the urban environment coupling a fast dynamics CFD model with low Mach number dispersion solvers in CERES® CBRN-E
14:20 – 14:40	**H17-080**: **Cornelis Cuvelier**: A harmonised approach to European Air Quality trend analyses over the period 1990-2010	**H17-100**: **Hartmut Walter,** Gerhard Heinrich: Effects from urban structures to atmospheric dispersion models in decision support systems for nuclear emergencies
14:40 – 15:00	**H17-120**: **Steven Herring,** Pablo Huq: Assessing the performance of atmospheric dispersion models	**H17-118: Fotios Barmpas**, Claudio Carriazo, Armando Pellicioni, Gianni Tinarelli, Nicolas Moussiopoulos: A novel metric to evaluate model's performance in predicting hazard zones
15:00 – 15:20	**H17-171**: **Enrico Ferrero**, Stefano Alessandrini, Domenico Anfossi: Lagrangian simulations of the plume rise in strong capping inversion	**H17-168**: **Guillaume Leroy**, Jean-Marc Lacome, Benjamin Truchot, Lauris Joubert: Harmonization in CFD approaches to assess toxic consequences of ammonia releases
15:20 – 15:40	**H17-137**: **Pontus von Schoenberg**, Håkan Grahn, Peter Tunved: Evaluation of model performance using new deposition schemes in the random displacement particle model Pello using Fukushima power plant accident data	**H17-115**: **Oliver Oldrini**, S. Perdriel, M. Nibart, P. Armand, C. Duchenne, J. Moussafir: EMERGENCIES – A modeling and decision-support project for the Great Paris in case of an accidental or malicious CBRN-E dispersion

15:40 – 16:30	**Coffee break, Poster session: Topic 1, Topic 2, Topic 8 (Magnólia Room)**

16:30 – 18:10	***Parallel session 5, Star Auditorium*** ***Chair: Dr. Amela Jeričević***	***Parallel session 6, Jázmin Room*** ***Chair: Dr.Stijn Janssen***
	Topic 1: Model evaluation and quality assurance – model validation, model intercomparisons, model uncertainties and model sensitivities	**Topic 8:** Modelling air dispersion and exposure to accidental releases
16:30 – 16:50	**H17-089:** Beatriz Sanchez, Christina Quaassdorff, **Jose Luis Santiago,** Rafael Borge, , Fernando Martin, David de la Paz, Alberto Martilli, Esther Rivas: Effects of traffic emission resolution on NO_2 concentration obtained by CFD-RANS modeling over a real urban area in Madrid (Spain)	**H17-038: Felipe Aguirre Martinez**, Yann Caniou, Christophe Duchenne, Patrick Armand, Thierry Yalamas: Probabilistic assessment of danger zones associated with a hypothetical accident in a major French port using a surrogate model of CFD simulations
16:50 – 17:10	**H17-176: Andrea Bisignano**, Luca Mortarini, Enrico Ferrero: Model chain for buoyant plume dispersion	**H17-173: Gianni Tinarelli**, Maxime Nibart, Patrick Armand, Silvia Trini Castelli: A sensitivity analysis for a Lagrangian particle dispersion model in emergency-response test cases
17:10 – 17:30	**H17-063: Simon Gant,** Simon Coldrick, Graham Tickle, Harvey Tucker: Impact of alternative dispersion model validation methods: A case study on the LNG model validation database using DRIFT	**H17-101: Arnaud Quérel**, Denis Quélo, Yelva Roustan, Anne Mathieu, Mizuo Kajino, Thomas Sekiyama, Kouji Adachi, Damien Didier, Yasuhito Igarashi, Takashi Maki: Impact of changing the wet deposition schemes in ldX on 137-Cs atmospheric deposits after the Fukushima accident
17:30 – 17:50	**H17-166: Arunachalam Saravanan**, Alejandro Valencia, Philip Soucacos, Jeffrey Weil: Assessing air quality impacts of airport emissions at the Los Angeles International Airport using an integrated modeling and measurement approach	**H17-108: Luca Delle Monache,** Ryan Cabell, Daniel Steinhoff: Self-organizing maps to generating reduced-size, statistically similar climate datasets for air dispersion applications
17:50 – 18:10	**H17-002:** Wu Zhangquan, **Liu Chun-Ho**: Time scale analysis of chemically reactive pollutants over urban roughness in the atmospheric boundary layer	**H17-162: Denise Hertwig**, Vladimir Fuka, Paul Hayden, Matteo Carpentieri, Elisa Goulart, Glyn Thomas, Ian Castro, Alan Robins, Zheng-Tong Xie, Omduth Coceal,: A comparison of fast dispersion models for localised releases in a street network

19:00 – 21:00	**Icebreaker (Platán Restaurant)**

Tuesday, 10 May 2016	

9:00 – 10:40	***Plenary session 2: Star Auditorium*** ***Chair: Prof. Michael Schatzmann***
	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 10:** 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
9:00 – 9:20	**H17-180: Marta Garcia Vivanco**, Bessagnet, B. Cuvelier, C. Tsyro, S. Aulinger, A. Bieser, J. Calori, G. Ciarelli, G. A. Manders Mircea,M. Aksoyoglu, S. Briganti, G. Cappelletti, A. Colette, A. Couvidat, F. D'Isidoro, M. Kranenburg, R. Meleux, F. Menut, L. Pay, M.T. Pirovano , G. Rouïl, L. Silibello, C. Theobald, M.R. Thunis, P. Ung, A: Joint analysis of deposition fluxes and atmospheric concentrations predicted by six chemistry transport models in the frame of the EURODELTA III project
9:20 – 9:40	**H17-025:** Weiping Dai, Qiguo Jing, Tiffany Stefanescu, **Brian Holland**: Roadside hot-spot analysis in urban area
9:40 – 10:00	**H17-143: Helge R. Olesen:** Challenges in assessing air pollution from residential wood combustion
10:00 – 10:20	**H17-078: Robert Sigg**, Håkan Grahn, Jan Burman, Niklas Brännström, Oscar Björnham, Petter Lindgren, Leif Å Persson, Pontus Von Schoenberg, Lennart Thaning: Dispersion modeling uncertainties in Dispersion Engine (DE)
10:20 - 10:40	**H17-157: Bertrand Carissimo:** A look back at 25 years of atmospheric CFD and field campaigns: from Thorney-Island to Jack Rabbit II

10:40 – 11:30	**Coffee break, Poster session : Topic 1, Topic 2, Topic 8 (Magnólia Room)**

11:30 - 12:30	***Parallel session 7: Star Auditorium*** ***Chair: Dr. Helen Webster***	***Parallel session 8: Jázmin Room*** ***Chair: Dr. Domenico Anfossi***
	Topic 1: Model evaluation and quality assurance – model validation, model intercomparisons, model uncertainties and model sensitivities	**Topic 8:** Modelling air dispersion and exposure to accidental releases **Topic:2:** Environmental impact assessment: Air pollution management and decision support systems
11:30 – 11:50	**H17-065**: **Stephen E. Smith**, Jenny Stocker, Martin Seaton, David Carruthers: A validation study of the ADMS plume chemistry schemes	**H17-121**: **Steven Herring**, Patrick Armandand, Claudio Gariazzo: Best practice in applying emergency response tools to local-scale hazmat incidents
11:50 – 12:10	**H17-093**: Raphaël Périllat, **Irène Korsakissok**, Vivien Mallet, Anne Mathieu, Thomas Sekiyama , Mizuo Kajino, Kouji Adachi, Yasuhito Igarashi, Takashi Maki, Damien Didier: Using meteorological ensembles for atmospheric dispersion modeling of the Fukushima nuclear accident	**H17-028: Marija Zlata Božnar**, Boštjan Grašič, Primož Mlakar, Dejan Gradišar, Juš Kocijan: Analysis of the daily cycles in the data on air pollution through the use of advanced analytical tools
12:10 – 12:30	**H17-164: Goran Gašparac**, Amela Jeričević, Branko Grisogono: Application and comparison of the air quality modeling systems in statically stable conditions	**H17-076: Philippe Thunis**, Enrico Pisoni, Bart Degraeuwe, Alain Clappie: SHERPA: an approach to explore potential air quality improvements at the regional/local scales

12:30 – 14:00	**Lunch (Platán Restaurant)**

14:00 - 15:40	***Parallel session 9: Star Auditorium*** ***Chair: Dr. Marija Zlata Božnar***	***Parallel session 10: Jázmin Room*** ***Chair: Prof. Roberto San Jose***
	Topic 1: Model evaluation and quality assurance – model validation, model intercomparisons, model uncertainties and model sensitivities **Topic 5:** Urban scale and street canyon modelling: Meteorology and air quality	**Topic 2**: Environmental impact assessment: Air pollution management and decision support systems
14:00 – 14:20	**H17-066**: Jenny Stocker, Andrew Ellis, Steve Smith, **David Carruthers**, Akula Venkatram, William, Dale Mark Attree: A review of dispersion modelling of agricultural and bioaerosol emissions with non-point sources	**H17-167: Atenágoras Silva,** Américo Kerr, Simone Gioia, Marly Babinski: Investigation of the transport of pollutants from the Metropolitan Area of São Paulo and from the industrial city of Cubatão to nearby areas
14:20 – 14:40	**H17-136: Roseane A.S. Albani**, Beatrice Pulvirenti, Silvana di Sabatino: Simulations of traffic related pollutants in a main street of Rio de Janeiro city (Brazil) using computational fluid dynamics modelling	**H17-184: John Backman**, Curtis Wood, Mikko Auvinen, Leena Kangas, Ari Karppinen, Jaakko Kukkonen: Sensitivity analysis of a meteorological pre-processor using algorithmic differentiation
14:40 – 15:00	**H17-158:** Francesca Di Nicola, Maria Lisa Vincenti, Patrick Conry, Riccardo Buccolieri, Piera Ielpo, Alessandra Genga, Livia Giotta, Harindra J. S. Fernando, **Silvana Di Sabatino**: The role of surface building materials in air quality applications	**H17-070:** A.I. Miranda, **Joana Ferreira**, C. Silveira, H. Relvas, M. Lopes, P. Roebeling, A. Monteiro, E. Sá, C. Gama, S. Costa, J.P. Teixeira, C. Borrego: Improving urban air quality using a cost-efficiency and health benefit approach
15:00 – 15:20	**H17-172: Márton Balczó,** Tamás Lajos**:** Investigation of the ventilation and air quality of urban squares	**H17-114: Nitsa Haikin**, P. Alpert, Y. Mahrer**:** A Numerical study of air-pollution and atmospheric fine-scale flow over the coastal complex terrain of Mt. Carmel
15:20 – 15:40	**H17-183:** K. Zink**, Antoine Berchet**, D. Brunner, J. Brunner, L. Emmenegger: GRAMM/GRAL: Computing air QUALITY maps at the Urban scale	**H17-181: Amela Jericevic,** Goran Gasparac**:** Modeling of aviation emissions impact on local air quality

15:40 – 16:30	**Coffee break, Poster session : Topic 1, Topic 2, Topic 8 (Magnólia Room)**

16:30 - 17:50	***Parallel session 11: Star Auditorium*** ***Chair: Prof. Steven Hanna***	***Parallel session 12 : Jázmin Room*** ***Chair: Prof. István Faragó***
	Topic 5: Urban scale and street canyon modelling: Meteorology and air quality	**Topic 9**: Mathematical problems in air quality modelling
16:30 – 16:50	**H17-144: Patrick Conry,** Silvana Di Sabatino, Francesca Di Nicola, Maria Lisa Vincenti, Riccardo Buccolieri, Pierina Ielpo, Livia Giotta, Alessandra Genga, Ludovico Valli, Gennaro Rispoli, H. J. S. Fernando: Dry deposition onto vertical surfaces in the urban environment	**H17-032: Fabrice Boisseranc,** Patrick Armand, Christophe Duchenne, Guillaume Douarre**:** Analysis of simulation results issued by a Lattice Boltzmann Method in complex urban environments – Applications to Paris and Hamburg
16:50 – 17:10	**H17-160: Elsa Aristodemou**, Luz Maria Boganegra, Christopher Pain, Alan Robins: Simulating turbulent air flows in central London and studying effect of tall buildings	**H17-139: Stefano Alessandrini**, L. Delle Monache, Irina Djalalova, Jim Wilczak: An application of the Schaake Shuffle technique to generate space-time consistent AQ predictions
17:10 – 17:30	**H17-165: Zoltán Horváth**, Bence Liszkai, György Istenes, Péter Zsebők , Balázs Szintai, Éva Pestiné Rácz, László Környei: Integrated urban air pollution dispersion modelling framework and application in air quality prediction of the city of Győr	**H17-045: Ágnes Havasi**, István Faragó, Zahari Zlatev: Efficient numerical methods in air pollution transport modelling: operator splitting and Richardon extrapolation
17:30 – 17:50	**H17-140: Thor-Bjørn Ottosen**, Matthias Ketzel, Ole Hertel, Jørgen Brandt, Henrik Skov, Konstantinos E. Kakosimos: Modelling NO_x and NO_2 in two street canyons in Copenhagen using an improved version of OSPM	**H17-037: Robin Locatelli**, Vivien Mallet, Patrick Armand: Improvement of atmospheric dispersion simulations in case of an accident or a malevolent action using data assimilation METHODS in CERES® CBRN-E

17:50 – 20:00	**End of Poster session: Topic1, Topic2, Topic 8 and** **Start of Poster Session: Topic 3, Topic 4, Topic 5, Topic 6, Topic 7 (Magnólia Room)**

Wednesday, 11 May 2016

9:00 – 10:20	***Plenary session 3: Star Auditorium*** ***Chair: Prof. László Bozó***
	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
9:00 – 9:20	**H17-003: Hans Hooyberghs,** Wouter Lefebvre, Felix Deutsch, Sandy Adriaenssens, Elke Trimpeneers, Frans Fierens, Stijn Janssen: Modelling ultrafine particle concentrations at street-level scale for the entire city of Antwerp
9:20 – 9:40	**H17-125:** Nektarios Koutsourakis, **John G. Bartzis**, George C. Efthimiou, Alexandros G. Venetsanos, Ilias C. Tolias, Nicolas C. Markatos, Denise Hertwig, Bernd Leitl: LES study of unsteady flow phenomena in an urban geometry – the need for special evaluation methods
9:40 – 10.00	**H17-113: Patrick Armand**, Kathrin Baumann-Stanzer, E. Bemporad, Claudio Gariazzo, Marko Gerbec, Steven Herring, Ari Karpinnen, Bernd Leitl, Tamir G. Reisin, Gianni Tinarelli, Silvia Trini Castelli: Best practice guidelines for the use of atmospheric dispersion models at local scale in case of hazmat releases into the air
10:00 – 10:20	**H17-128:** Athanasios Triantafyllou, **Nicolas Moussiopoulos**, Athina Krestou, George Tsegas, Melina Andreadou: Application of inverse dispersion modelling for the determination of pm emission factors from fugitive dust sources in open-pit lignite mines

10:20 – 11:10	**Coffee break, Poster session: Topic 3, Topic 4, Topic 5, Topic 6, Topic 7 (Magnólia Room)**

11:10-12:30	***Parallel session 13: Star Auditorium*** ***Chair: Dr. Peter Suppan***	***Parallel session 14: Jázmin Room*** ***Chair: Dr. Cristina Guerreiro***
	Topic 5: Urban scale and street canyon modelling: Meteorology and air quality	**Topic 7:** Inverse dispersion modelling and source identification
11:10 – 11:30	**H17-163:** Matthias Ketzel, **Konstantinos E. Kakosimos**, Ulas Im, Thor-Bjørn Ottosen, Jørgen Brandt, Steen S. Jensen,Thomas Ellermann, Maria B. Poulsen,Ole Hertel: Flow and dispersion modelling study at one of Denmarks traffic hot-spots	**H17-135: Isabel Ribeiro**, Zoi Paschalidi, Hendrik Elbern: Optimizing initial values and emission factors on mesoscale air quality modelling using 4D-var data assimilation
11:30 – 11:50	**H17-103:** Beatriz Sanchez, **Jose Luis Santiago,** Alberto Martilli, Magdalena Palacios, Manuel Pujadas, Lourdes Nuñez, Monica German, Jaime Fernandez-Pampillon, Jose Daniel Iglesias,: CFD Modeling of Reactive Pollutants Dispersion and Effect of Photocatalytic Pavements in a Real Urban Area	**H17-048: George C. Efthimiou**, Spyros Andronopoulos, Alexandros Venetsanos, Ivan V. Kovalets, Konstantinos Kakosimos, Christos D. Argyropoulos: Modification and validation of a method for estimating the location of a point stationary source of passive non-reactive pollutant in an urban environment
11:50 – 12:10	**H17-098: Roberto San José,** Juan L. Pérez, Libia Pérez, Julia Pecci, Antonio Garzón, Marino Palacio: Impacts of global climate scenarios over three European cities using mesoscale and CFD simulations with very high resolution	**H17-110: Olivier Saunier**, A. Mathieu, T. Sekiyama, M. Kajino, K. Adachi, M. Bocquet, Y. Igarashi, T. Maki, D. Didier: A new perspective on the Fukushima releases brought by newly available ^{137}Cs air concentration observations and reliable meteorological fields
12:10 – 12:30	**H17-064: Arsenios Chatzimichailidis,** Marc Assael, Matthias Ketzel Konstantinos E Kakosimos: Modelling the recirculation zone in street canyons with different aspect ratios, using CFD simulation	**H17-005: Tímea Haszpra:** Time-reversibility in atmospheric dispersion

12:30 – 14:00	**Lunch (Platán Restaurant)**

14:00 - 15:40	***Parallel session 15: Star Auditorium*** ***Chair: Dr. Philippe Thunis***	***Parallel session 16: Meeting Room 2*** ***Chair: Dr. Scott Chambers***
	Topic 5: Modelling air dispersion and exposure to accidental releases	**Topic 7:** Inverse dispersion modelling and source identification
14:00 – 14:20	**H17-041** **Vlad Isakov**, Akula Venkatram, Richard Baldauf, Parik Deshmukh, Max Zhang: Evaluation and development of tools to quantify the impacts of roadside vegetation barriers on near-road air quality	**H17-007: Sarvesh Kumar Singh,** Gregory Turbelin, Pramod Kumar, Raj Rani, Amir-Ali Feiz, Pierre Ngae,Jean-Pierre Issartel: Uncertainty estimation in the reconstruction of atmospheric tracer source emissions
14:20 – 14:40	**H17-119:** Vasilis Akylas, **Fotios Barmpas**, Nicolas Moussiopoulos, George Tsegas: New inflow boundary conditions for homogeneous atmospheric boundary layer under the power law for street scale modelling	**H17-030: Pramod Kumar**, Amir-Ali Feiz, Sarvesh Kumar Singh, Pierre Ngae, Raj Rani, Emerson Barbosa, Grégory Turbelin, Jean-Pierre Issartel, Nadir Bekka: Source reconstruction in urban and non-urban environments using an inversion methodology coupled with a CFD approach
14:40 – 15:00	**H17-124** Simone Ferrari, Maria Grazia Badas, Michela Garau, **Alessandro Seoni**, Giorgio Querzoli: The air quality in two-dimensional urban canyons with gable roof buildings: a numerical and laboratory investigation	**H17-033: Harizo Rajaona,** François Septier, Yves Delignon, Patrick Armand, Laurent Makke, Christophe Olry, Armand Albergel: A Bayesian approach of the source term estimate coupling retro-dispersion computations with a Lagrangian particle dispersion model and the adaptive multiple importance sampling
15:00 – 15:20	**H17-074** Esther Rivas, **Jose Luis Santiago,** Fernando Martin, Beatriz Sanchez, Alberto Martilli: Estimating the impact of urban vegetation on air quality in a neighborhood: real case vs new vegetation scenarios	**H17-109:** Samar Elkhalifa, Christos D. Argyropoulos, George C. Efthimiou, Spyros Andronopoulos, Alexandros G. Venetsanos, Ivan V. Kovalets, **Konstantinos E. Kakosimos**: On the exploitation of dose-response information for the source-reconstruction in the case of atmospheric hazardous material releases
15:20 – 15:40	**H17-186: Steven Hanna**, Joseph Chang, Thomas Spicer, Michael D. Sohn, Shannon Fox, Mark Whitmire, Leo Stockham, Damon Nicholson, Thomas Mazzola: Preliminary analysis of observations from the Jack Rabbit II–2015 field experiment on dense gas dispersion in a built environment	**H17-174: Chi Vuong N'guyen**, Lionel Soulhac: Implementation and application of a source apportionment approach in the SIRANE urban air quality model

15:40 – 16:10	**Coffee break, Poster session: Topic 3, Topic 4, Topic 5, Topic 6, Topic 7 (Magnólia Room)**

16:10 - 17:30	***Parallel session 17: Star Auditorium*** ***Chair: Dr. Silvia Trini Castelli***	***Parallel session 18: Meeting Room 2*** ***Chair: Dr. Kees Cuvelier***
	Topic 4: Parametrization of physical processes in mesoscale meteorology relevant for air quality modelling **Topic 3:** Use of modelling in support of EU air quality directives, including FAIRMODE	**Topic 6:** Use of modelling in health and exposure assessments
16:10 – 16:30	**H17-088:** David de la Paz**, Rafael Borge**, Alberto Martilli: Impact of WRF urban parameterizations in the performance of CMAQ on 1 km^2 resolution annual runs in Madrid (Spain)	**H17-106: Cristina Guerreiro,** Jan Horálek, Frank de Leeuw, Florian Couvidat**: E**stimating ambient concentrations of benzo(a)pyrene in Europe - population exposure and health effects
16:30 – 16:50	**H17-138: Leonardo Aragão Ferreira da Silva**, Silvana Di Sabatino, Luiz Claudio Gomes Pimentel, Fernando Pereira Duda: Analysis of the internal boundary layer formation on tropical coastal regions using sodar data in Santa Cruz region of MRRJ	**H17-039: Patrick Armand,** Christophe Duchenne, Yasmine Benamrane, Sébastien Gouillat, Nadège Cabibel, Bertrand Masselin, Thomas Bineau: Real-time use of a CFD modelling system in the framework of "Toxic 2014", a major Civilian Security exercise at a very complex urban site in Paris
16:50 – 17:10	**H17-079: Alexandra Monteiro,** Carla Gama, Alain Clappier, Philippe Thunis, Ana Isabel Miranda: Testing the SHERPA tool to support air quality plans over Portugal	**H17-102:** Alexander Slawik**,** James Silva, Kevin Axelrod, **Jeffry T. Urban**, Nathan Platt: Are toxic load-based toxicity models consistent with experimental observations? Independent analysis of time-varying exposure data from the 2012–2013 ECBC/NAMRU-D toxicological experiments

17:10 – 17:30	**H17-148: Oxana Tchepel**, Daniela Dias: Urban traffic emission modelling for policy-related applications	**H17-091: Miguel Picornell,** T.Ruíz, R. Borge, P.García, D. de la Paz, J.Lumbreras: Evaluation of exposure to air pollution through mobile phone data in the city of Madrid (Spain)

19:30 – 23:00	**Conference dinner (Gróf Széchenyi Event Boat)**

Thursday, 12 May 2016

9:20 – 10:40	***Plenary session 4: Star Auditorium*** ***Chair: Prof. David Carruthers***
	Topic 1: Model evaluation and quality assurance – model validation, model intercomparisons, model uncertainties and model sensitivities **Topic 3:** Use of modelling in support of EU air quality directives, including FAIRMODE **Topic 7:** Inverse dispersion modelling and source identification **MODITIC:** MOdelling the DIspersion of Toxic Industrial Chemicals in urban environments
9:20 – 9:40	**H17-068: Christophe Duchenne**, Patrick Armand, Maxime Nibart, Virginie Hergault: Validation of a LPDM against the CUTE experiments of the COST ES1006 Action – comparison of the results obtained with the diagnostic and RANS versions of the models
9:40 – 10:00	**H17-094: Cornelis Cuvelier,** P. Thunis, L. Tarrason, M. Guevara-Vilardell, S. Lopez-Aparicio: A benchmarking tool to screen and compare bottom-up and top-down emission inventories
10:00 – 10:20	**H17-077: Helen N. Webster,** David J. Thomson, Michael C. Cooke, Rachel E. Pelley: Improvements to an operational inversion method for estimating volcanic ash source parameters using satellite retrievals
10:20 - 10:40	**H17-017: Monica Endregard** Stephane Burkhart, Jan Burman, Olivier Gentilhomme, Alan Robins, Emma M. M. Wingstedt, B. Anders Pettersson Reif, Leif Persson, Niklas Brännström, Oskar Parmhed, Oscar Björnham, Guillaume Leroy, Daniel Eriksson, Thomas Vik, John Aa. Tørnes, Jean-Pierre Issartel: MOdelling the DIspersion of Toxic Industrial Chemicals in urban environments

10:40 – 11:30	**Coffee break, Poster session: Topic 3, Topic 4, Topic 5, Topic 6, Topic 7 (Magnólia Room)**

11:30 - 12:30	***Parallel session 19: Star Auditorium*** ***Chair: Dr. Patrick Armand***	***Parallel session 20: Jázmin Room*** ***Chair: Prof. Alan Robins***
	Topic 3: Use of modelling in support of EU air quality directives, including FAIRMODE	**MODITIC:** MOdelling the DIspersion of Toxic Industrial Chemicals in urban environments
11:30 – 11:50	**H17-075: Philippe Thunis**, Bart Degraeuwe, Enrico Pisoni, Alain Clappier, Frederik Meleux: On the efficiency of short-term air quality plans in European cities	**H17-018: Alan Robins**, Matteo Carpentieri, Paul Hayden, Joseph Batten, Jack Benson and Ashley Nunn: MODITIC wind tunnel experiments
11:50 – 12:10	**H17-152: Stijn Janssen,** Philippe Thunis: FAIRMODE's EU Composite Mapping Exercise	**H17-019:** Stéphane Burkhart, Jan Burman: MODITIC wind tunnel experiments Neutral and heavy gas simulation using RANS
12:10 – 12:30	**H17-004: Wouter Lefebvre,** Hans Hooyberghs, Felix Deutsch, Sandy Adriaenssens, Frans Fierens: Exceeding the European NO_2-limit value in Belgium: can we solve the problem in a short to medium time frame?	**H17-020:** Niklas Brännström, Tobias Brännvall, Stéphane Burkhart, Jan Burman, Xavier Busch, Jean-Pierre Issartel, **Leif Å. Persson**: MODITIC Inverse modelling in urban environments

12:30 – 14:00	Lunch (Platán Restaurant)

14:00 - 15:00	*Parallel session 21: Star Auditorium* *Chair: Dr. Stefano Alessandrini*	*Parallel session 22: Jázmin Room* *Chair: Prof. Alan Robins*
	Topic 3: Use of modelling in support of EU air quality directives, including FAIRMODE	**MODITIC**: MOdelling the DIspersion of Toxic Industrial Chemicals in urban environments
14:00 – 14:20	**H17-052:** Bino Maiheu, Laure Malherbe, Ana I. Miranda, Alexandra Monteiro, Claudio Carnevale, **Stijn Janssen**: Evaluation of a Monte Carlo-based validation technique for data assimilated air quality assessments within FAIRMODE	**H17-022: Andreas N. Osnes**, D. Eriksson, B. Anders, P. Reif: On the generation of inflow boundary conditions for dispersion simulations using Large Eddy Simulations
14:20 – 14:40	**H17-060: Fernando Martin,** Jose Luis Santiago, Oliver Kracht, Laura García, Michel Gerboles: Feasibility of an intercomparison exercise of methods for the assessment of the spatial representativeness of monitoring sites	**H17-021: Emma Wingstedt**, D. Eriksson, O. Parmhed, G. Leroy, A. N. Osnes, B. A. P. Reif, J. Burman: Large Eddy Simulations of dispersion of neutral and non-neutral scalar fields in complex urban-like geometries
14:40 – 15:00	**H17-154:** Michel Vedrenne**, Julio Lumbreras**, Rafael Borge, Alain Clappier, Philippe Thunis, María Encarnación Rodríguez: Comparing air quality model performance for planning applications	**H17-023 Oscar Björnham,** Arnaud Gousseff, John Tørnes, Stephane Burkhart: MODITIC Operational Models

15:00 – 15:30	Closing of the conference – Dr. Helge Olesen