Monday, September 11, 2023

11:00 Check-in at DWD
12:30 Webex Stream Begins

13:00 | Welcome
Astrid Eichhorn-Müller, Deutscher Wetterdienst, Germany
Dr. Christina Koppe, Deutscher Wetterdienst, Germany
Prof. Dr. Siegfried Raasch, Leibniz Universität Hannover, Germany

13:20 | SESSION 1: Urban Climate Research (Chair: Sebastian Giersch)

13:20 | Modelling the impact of an urban development project on microclimate and outdoor thermal comfort in a mid-latitude city
Julian Anders, Leibniz Universität Hannover, Germany

13:35 | Does facade and roof greening reduce heat stress in urban environments? A PALM case study for Magdeburg.
Pierre Monteyne, Leibniz Universität Hannover, Germany

13:50 | Effect of radiation interaction and aerosol processes on ventilation and aerosol concentrations in a real urban neighbourhood in Helsinki
Jani Strömberg, University of Helsinki, Germany

14:05 | The LES-LES self-nesting capability in PALM
Antti Hellsten, Finnish Meteorological Institute, Finland

14:20 *coffee break*

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14:50	**SESSION 2: Development** (Chair: Johannes Schwenkel)
14:50	Application of PALM to cloud chamber simulations Prof. Dr. Hyunho Lee, Kongju National University, South Korea
15:05	New Snow Scheme in the PALM Land Surface Model and First Results Dr. Christopher Mount, Leibniz Universität Hannover, Germany
15:20	3-D radiative interactions for non-orthogonal (slanted) surfaces in PALM using cut-cell grid Dr. Pavel Krc, Czech Academy of Science, Czech Republic
15:35	Integrating MATSim and PALM - Coupling Large Scale Microscopic Traffic and Emission Modelling with High Resolution Computational Fluid Dynamics Dispersion Modelling Janek Laudan, Technische Universität Berlin, Germany
15:50	PALM-4U GUI: A cloud based user-friendly graphical user interface for the urban climate model PALM-4U Sebastian Stadler, Fraunhofer Institute for Building Physics IBP, Germany
16:05	*discussion*

16:30 URSA-MAJOR project meeting

18:00 Conference Dinner

Tuesday, September 12, 2023

09:00	**SESSION 3: Application and Practice** (Chair: Sebastian Giersch)
09:00	Integration of PALM simulations in urban climate policymaking Prof. Dr. Igor Esau, Nansen Environmental and Remote Sensing Center, Norway
09:15	Pros and Cons Working with PALM as a Consultant Dr. Tobias Gronemeier, iMA Richter & Röcke GmbH & Co. KG, Germany
09:30	Application of PALM at the German Weather Service Astrid Eichhorn-Müller, Deutscher Wetterdienst, Germany
09:45	Overview of recent PALM-4U related research activities at the Austrian weather service Brigitta Hollosi, GeoSphere Austria, Austria
10:00	LES at the wind turbine manufacturer ENERCON Dr. Marcus Letzel, ENERCON, Germany
10:15	*discussion*
10:25	*coffee break*

Tuesday, September 12, 2023

10:55	**SESSION 4a: ABL Dynamics, Turbulence and Dispersion** (Chair: Astrid Eichhorn-Müller)
10:55	Mesoscale-coupled PALM simulations in complex terrain: Applications and challenges Oliver Maas, ENERCON, Germany
11:10	Towards the simulation of a wind machine based on an actuator disk model to improve frost protection Dr. Clara Le Cap, Weather Measures, France
11:25	Surface heterogeneity induced effects on the diurnally evolving convective boundary layer from coupled large eddy simulations of the CHEESEHEAD19 field campaign Sreenath Paleri, University of Oklahoma, USA
11:40	LES of local scale atmospheric boundary layer dynamics using PALM at the Finnish Meteorological Institute Dr.Jukka-Pekka Keskinen, Finnish Meteorological Institute, Finland
11:55	Large-Eddy Simulation of passive plumes in neutral stratified and slightly stable boundary layers Marilina Barulli, Ecole Centrale de Lyon, France
12:10	*discussion*
12:20	*lunch break*

Tuesday, September 12, 2023

13:20	**SESSION 4b: ABL Dynamics, Turbulence and Dispersion** (Chair: Johannes Schwenkel)
13:20	Implementing moving emissions and simulating the dispersion of ship exhaust plumes Katrin Gehrke, pecanode GmbH, Germany
13:35	Effects of RV Polarstern on the atmospheric flow and observations during MOSAiC Dr. Robert Klingel, Leibniz Univeristät Hannover, Germany
13:50	Introduction and validation of a simplistic method to represent vehicle-induced turbulence in PALM Giovanna Motisi, Leibniz Universität Hannover, Germany
14:05	Application of PALM to modelling of indoor ventilation problems Mikko Auvinen, Finnish Meteorological Institute, Finland
14:20	*discussion*
14:30	*coffee break*
15:00	**Constitutional Meeting**