Outline

Tuesday, September 17

Tue, 11:00-13:00	Registration
Tue, 13:00	Welcome
Tue, 13:20-14:00	PMC24 Key Note

	SESSION 1:	
Tue, 14:00	Brigitta Hollosi	Using the building-resolving PALM model to capture micrometeorological characteristics of an urban environment in Vienna, Austria
Tue, 14:20	Daiane Brondani	Simulating Heatwave in Urban Environments: A Case Study of Villa Ada, Rome, during October 2023
Tue, 16:30	Patricia Glocke	Modelling Impacts of Subsurface Thermal Anomalies on Potential Air Temperatures in Berlin
Tue, 15:00-15:30		coffee break
Tue, 14:40	Maja Zuvela-Aloise	Evaluation of city-scale PALM model simulations for Vienna, Austria using operational and crowdsourced data
Tue, 15:30	Lara van der Linden	Is crowdsourced air temperature data suitable for model evaluation? An analysis based on PALM simulations for German cities
Tue, 15:50	Julian Anders	Microscale Simulation of Local Climate Zones -- A QGIS-Based Set-up Wizard for Customized Cities and Adaptation Studies with PALM
Tue, 16:10	Martin Schneider	Supporting location determination for a meteorological monitoring network in the city of Linz (Austria)
Tue, 16:50	Nooshin Nowzamani	Characterizing Waste Heat Flux Through Archetype-Based Building Parameterization in a Residential District: A Sensitivity Analysis of the LES PALM Model
Tue, 17:10	Pierre Monteyne	Addressing the Overheating in limited-domain urban simulations with PALM
Tue, 17:30-18:00		discussion

Wednesday, September 18

	SESSION 2:	
Wed, 9:00	Dan Li	Characterizing Urban Flow Disturbances for Safe Operations of Urban Air Mobility
Wed, 9:20	Giovanna Motisi	Large-eddy simulation of vehicle-induced turbulence and pollutant dispersion in urban street canyons - Effects of thermodynamics and wind conditions
Wed, 9:40	Robert Wegener	Urban Ozone Production Simulated with PALM-4U at High Spatial Resolution
Wed, 10:00	Tereza Pikousová	Retrieval of Annual Air Quality Statistics from a Limited Number of LES Model Simulations
Wed, 10:20	Jennifer Karam	Enhancing Urban Air Quality Through Passive Ventilation Strategies
Wed, 10:40	Olanrewaju Olukemi SONEYE-AROGUNDADE	Modeling the Dispersion of Natural Gas Leaks from Damaged Transmission Pipelines Using PALM
Wed, 11:00-11:30		coffee break
Wed, 11:30	Katrin Gehrke	Dispersion of ship exhaust plumes and current developments in the moving emissions module
Wed, 11:50	Victor Bourgin	Implementation of a particle resuspension model in PALM
Wed, 12:10	Sebastian Giersch	Unveiling Dust Devil Particle Transport: A Large-Eddy Simulation Study
Wed, 12:30-13:00		discussion

Wed, 13:00-14:30	lunch break
Wed, 14:15	group photo

Wednesday, September 18

	SESSION 3:	
Wed, 14:30	Tony Christian Landi	Intercomparison of PALM-4U simulations performed by using MOLOCH and WRF meteorological drivers
Wed 14:50	Jiachen Lu	UrbanTALES: A comprehensive dataset of Urban Turbulent Airflow using systematic Large Eddy Simulations
Wed, 15:10	Sonja Steinbrück	Improvement of the PALM-FAST coupling for heterogeneous wind fields
Wed, 15:30-16:00		coffee break

	SESSION 4:	
Wed, 16:00	S. Karttunen	PALM-SLUrb: a single-layer urban surface model for micro to mesoscale atmospheric boundary layer studies
Wed, 16:20	Mohamed Hefny Salim	3-D Radiative Transfer in Building-Resolving Large-Eddy Simulations: Integrating the TenStream Solver with PALM Model System
Wed, 16:40	Johannes Schwenkel	Simulating clouds with PALM: Current status, recent developments and perspectives
Wed, 17:00-17:30		discussion

Wed, 17:30-18:30	PALM developer meeting

Wed, 19:00	conference dinner

Thursday, September 19

	SESSION 5:	
Thu, 9:00	Luca Mortarini	Simulating the Amazon Forest Atmospheric Flow during an El Niño episode
Thu, 9:20	Joshua Brook-Lawson	Simulating the Cooling Potential of Tilia Trees in Berlin Using PALM-LES: The Impact of Tree Age and Density During a Heatwave
Thu, 9:40	Ronald Queck	PALM and trees in different resolutions and their effect on thermal comfort
Thu, 10:00-10:15		discussion
Thu, 10:15-10:45		coffee break

	SESSION 6:	
Thu, 10:45	Lukas Vollmer	Investigations into the flow in and around offshore wind farms
Thu, 11:05	Oliver Maas	Stratified flow over complex terrain and its effects on extreme wind conditions at wind turbines
Thu, 11:25	Renuka Shastri	Numerical investigation of high impact foehn storm in February 1925 using PALM
Thu, 11:45	Igor Esau	Study of the Monin-Obukhov Similarity Theory (MOST) with PALM
Thu, 12:05	Benjamin Körner	Parametrizing turbulent fluxes by extending Monin Obukhov Similarity Theory with an Artificial Neural Network
Thu, 12:25	Matthias Mauder	The contribution of dispersive fluxes to the energy-balance closure problem
Thu, 12:45-13:00		discussion
Thu, 13:00-14:30		lunch break
Thu, 14:30-17:00	Symposium in Honor of Siegfried Raasch	

Friday, September 20

	SESSION 7:	
Fri, 9:00	Astrid Eichhorn-Müller	promet: a new pre-processor to genereate dynamic drivers
Fri, 9:20	Sebastian Schubert	Tools to generate the static driver – A comparison
Fri, 9:40	Matthias Winkler	Advancements in PALM-4U GUI: New Features and Practical Application
Fri, 10:00	Julian Vogel and Sebastian Stadler	SanDy-PALM: a new open-source repository to create static and dynamic drivers for the PALM model system
Fri, 10:20	Alexander Radi	Enercon's pre-processor for complex terrain
Fri, 10:40	Joshua Brook-Lawson	Validating PALM's Canopy Generator Using LiDAR-Derived Leaf Area Density Profiles
Fri, 11:00-11:30		discussion
Fri, 11:30-12:00		coffee break

Fri, 12:00-13:00	**PMC24 Wrap Up, Closing**
Fri, 13:00-14:00	lunch break
Fri, 14:00-16:00	**Working Group Session on PALM Tools**