

Monday, June 1, 2026
 Registration + Welcome drink 15:30 - 18:30
 Tuesday, June 2, 2026

Refectory

Room S5
 Chair: Tomáš Halenka
 Opening

Room S9

9:00
 9:30 Alexander Baklanov - Towards Urban Environment and Climate Services: Urgency and Importance of Seamless Multi-Scale Modeling Tools to Support Climate Adaptation and Sustainable City Development
 10:00 Bruno Augusto - Impacts of Urban Morphology on Air Quality and Sustainability: An Integrated Modelling Study

CB 10:30-11:00

Chair: Sandro Finardi

Chair: Kostas Karatzas

Chair: Maria de Fatima Andrade

11:00	Stephane Jay - A digital-twin framework for time-resolved air pollutant dispersion driven by real-world environmental data in urban areas	Naresh Kumar - Application of Machine Learning to Estimate US Background Concentrations for PM2.5	Christof Gromke - Effects of towers on natural ventilation and air quality of courtyards of perimeter block housing
11:20	Astrid Manders - Modelling of ultrafine particles, from city scale to Europe-wide	Jibrán Khan - Predicting Hourly Ultrafine Particles Concentrations in Copenhagen using Data-Driven Methods	Jaroslav Resler - Influence of the car-induced flow and heat on the street canyon air quality
11:40	Michal Belda - FUME: processing emission inputs for chemical transport models from continental to street scale	Soomin Hwang - AI-based framework for long-term (2003–2019) global high-resolution XCO ₂ reconstruction	Parisa Rezaei - CFD simulation of the impact of surrounding buildings on wind flow and pollutant dispersion around an urban building: a London case study
12:00	Pavel Krč - Providing microscale emission inputs into the PALM model using the FUME processor	Vladimír Fuka - LES of air pollution in a street canyon with a subgrid model based on an artificial neural network	Hynek Řezníček - MicroBUS: PALM-related simulations and wind-tunnel measurements of street trees in urban traffic hotspots
12:20	Qinghao Guo - Simulations of atmospheric organonitrates using updated explicit chemical mechanisms	Ta-Chien Chan - Short-Term Spatiotemporal Air Quality Forecasting Using GEMS Satellite Data and Deep Neural Networks	Yeon-Uk Kim - Coupled Cooling, Aerodynamic, and BVOC Emission Effects of Urban Trees on Ozone Formation in a Densely Built Environment: A CFD-SAPRC Modeling Study

Lunch 12:40-14:00

Chair: Maria de Fatima Andrade

Chair: Mihaela Mircea

Chair: Jaroslav Resler

14:00	Mojtaba Bezaatpour - Global impact of ozone-derived naphthalene oxidation on secondary organic aerosol formation	Sheen McLean Cabaneros - Quantifying Predictive Uncertainty in Graph-Based Urban Air Quality Forecasting: A Case Study in the Northeast of England	Tereza Pikousová - Retrieval of Annual Air Quality Statistics from a Limited Number of LES Model Simulations
14:20	Roland Schrödner - The new online-coupled chemistry transport model ICON-MUSCAT: First applications and validation	Kostas Karatzas - Network-based imputation outperforms individual sensor-level approaches in low-cost air quality sensor networks under operational conditions: a convincing case study	Petra Dolšák Lavrič - The Detailed Spatio-Temporal Bottom-up Approach for Assessing Emission Dispersion in Complex Terrain
14:40	Janice Scheffler - Uncertainties in pollutant deposition in rain and fog in complex terrain: Current status in the EMEP4UK Atmospheric Chemistry Transport Model	Adrian Wenzel - Dense network of low-cost sensors in Munich for mapping urban air pollutants	Raúl Canino - Assessment of Indoor Air Quality using CFD: Validation and Sensitivity Analysis in an Air-Conditioned Classroom
15:00	Yejin Kim - High-Resolution Regional 72-Hour Ozone Forecasting at 6 km Using Deep Learning over Northeast Asia	Rajat Sharma - Regression Based Apportionment with Low-Cost Air Quality Sensors Using Machine Learning and Emission Inventories	Balint Alföldy - Revealing the intrinsic dynamics of urban pollution sources through mixing-layer deconvolution: Insights from the largest European megacity
15:20	Jimin Kim - Assessment of regional ozone sensitivity to precursor emission reductions in South Korea using a deep learning-based CMAQ emulator	Ana Silva - Calibration of low-cost sensors for monitoring PM2.5 in train platforms in an urban area	Lya Lugon - What role do urban sources play in multi-scale NH ₃ and secondary inorganic aerosols concentrations and population exposure in Paris during wintertime?

CB + Posters 15:40-16:40

Ice-breaker on boat 18:00 - 20:00

Wednesday, June 3, 2026

Refectory

Room S5

Room S9

Chair: Kostas Karatzas

9:00 Philipp Schneider - ML-based data fusion of model, satellite, and ground observations for 1-km PM2.5 mapping over Europe
 9:30 Sara Ciarlantini - GHG and air pollutants emission in cities, towns and rural areas
 10:00 Anna Claire O'Regan - Urban NO₂ and PM_{2.5} Air Quality Data Fusion Modelling: Integrating Citizen Science and Low-Cost Sensor Data with Dispersion Modelling

CB 10:30-11:00

Chair: Sandro Finardi

Chair: Mihaela Mircea

Chair: Isabelle Coll

11:00	Ahmed Alrewey - Modeling urban dispersion under thermally stratified conditions	John Bartzis - AI-Driven Air Exposure Assessment in Urban Microenvironments : A Case Study	Mailin Samland - Impact of local site conditions on urban BVOC emissions
11:20	Karine Klippel - A Highway Dispersion Module for the MUNICH Street-Network Air-Quality Model Using a Gaussian Line-Plume Approach		Matthias Ketzler - Air pollution and climate scenarios for the Copenhagen area - using an activity-based traffic model coupled to an air quality modelling system

11:40	Giannis Ioannidis - Dynamic High-Resolution Dispersion Modelling of Aircraft Emissions During Landing and Take-Off	Nicolas Moussiopoulos - Refining PM2.5 Formation Impact Characterisation in Smart Farming Related Life Cycle Assessment Using Multi-Scale Air Quality Modelling	Pierluigi Cau - From Sensors to Scenarios: Integrating IoT, Dispersion Modelling, and HPC for Urban Air Quality Decision Support
12:00	Lasse Johansson - Gaussian dispersion and machine learning approaches for modelling urban particle number concentrations	Susana Lopez-Aparicio - From Farm Data to Atmospheric Concentrations - Spatial Variability in Agricultural NH ₃ Emissions	Kostas Karatzas - From "I See" to "I Inhale": Sensory Histories of Urban Air Pollution
12:20	Petri Clusius - Lagrangian Source Attribution and Process-Level Analysis of Air Pollution: Applications of FLEXPART-SOSAA, from Urban Haze to Rural Aerosol Dynamics		Riccardo Buccolieri - Ozone formation in a Mediterranean city (Lecce, Italy): observations, biogenic emissions and future scenarios
Lunch 12:40-14:00			
Chair: Ari Karpinen		Chair: Jana Moldanová	
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14:00	Sneha Sinha - Global vs Local Deep Learning Models for Multi-City PM2.5 Forecasting Using OpenAQ Data	Khadija Al Nabhani - A Scenario-Based Approach to Evaluating Chemical, Nuclear, and Dust-Driven Air Quality Risks: Qatar Case Study	Anna Ebelli - The Added Value of Dense Monitoring Networks: From Urban Air Quality Assessment to Model Validation
14:20	Roberto San Jose - Assessment of Biogenic and Anthropogenic CO ₂ Fluxes under IPCC Socio-Economic Scenarios: A High-Resolution Analysis in European Regions	Maria de Fatima Andrade - Sao Paulo Metropolitan Area, Jointly Tracking Climate Change and Air Quality - METROCLIMA Project	Ágoston Tordai - Event-Dependent Bias of Low-Cost Particulate Matter Sensors in Indoor Environments
14:40	Jorge Sousa - Fairmode's micro-scale intercomparison exercise in Madrid	Juanita Rausch - Optimizing PM source apportionment through morpho-chemical fingerprinting of particles to improve air quality management	Sanna Saarikoski - Micro- and nanoplastics in urban air in Helsinki, Finland
15:00	Stefano Zauli Sajani - Local climate action in European cities improves air quality and health: a modelling study	Minna Aurela - Non-exhaust particulate emissions in the urban environment	Kumar Gaurav Mishra - Influence of Air Mass Origins on Aerosol pH and ALWC in a Coal Mining City
15:20	Patrick Draheim - Health Co-Benefits of EU Power Decarbonisation Scenarios From Avoided PM2.5 Mortality and Associated Health Costs	Ahlam Al-hanai - Evaluating Fine PM Cytotoxicity in Urban Settings: The San Joaquin Valley, California	Regina Maura de Miranda - Particulate matter in São Paulo: characteristics and properties
CB + Posters 15:40-16:40			
Chair: Ari Karpinen		Chair: Matthias Volker	
Chair: Ari Karpinen		Chair: Roberto San Jose	
16:40	Patrice Coll - Exposure Studies of Living Organisms Using the PolluRisk Platform: How the PolluRisk Platform is Simulating at the Laboratory Urban Air Quality and Its Health Impacts	Helmut Lorentz - Drone-based Quantification of Inland Ship Exhaust PM Emissions Using Lagrangian Plume Modelling	Tomas Prokop - Measurements of airborne fine dust and ultrafine particles at a seaport in southern Italy
17:00	Louise Bøge Fredericksen - Low-cost sensors for personal air pollution exposure assessment: The DonorSense study	Daniel Obando - Overview EmIdES Project: Air Quality across the German Rail Network	Suresh Jain - Smart City Air Quality Management Through AI-Driven Traffic Analytics and Emission Modelling
17:20	Lucas Fernandez - Assessment of dynamic population exposure to air pollution in Madrid	Ingo Düring - Rail traffic Emission and Dispersion Calculations of air Pollution near the German rail network	Janat Nassanga - Spatial and temporal examination of Air Quality in Western Uganda
17:40	Ronny Badeke - Assessing Population Exposure to Ship-Related Air Pollution in Coastal Cities Using Static and Dynamic Approaches: Insights from Hamburg and Gothenburg	Pedro Jose Perez-Martinez - Transport Emissions in Campinas Using Low-Cost Sensor Data	Yanjun Wang - Continuous multi-height sensing of air pollutants traces the influence of strong shallow inversions, surface emissions, and power station plumes on wintertime air quality in Fairbanks (Alaska)
18:00	Taos Benoussaïd - Beyond a Global Indicator: A Profile-based Analysis of the Interactions Between Health, Social Vulnerability, and Air Pollution in Paris Region	Michal Sanetrník - Mitigating Transport-Related Air Pollution in Europe: The MI-TRAP project	Arianna Religi - Multi-site evaluation of SI-traceable low-cost sensors in Geneva (Switzerland)
Thursday, June 4, 2026			
Refectory		Room S5	
Refectory		Room S9	
Chair: Camilla Geels			
9:00	Christina Vasilakopoulou - Exploring in-vitro the health effect of secondary organic aerosol in cell lung models		
9:30	Tomáš Halenka - Project FOCI - Non-CO2 Forcers and Their Climate, Weather, Air Quality and Health Impacts: Modelling of Chemistry-Climate Interactions over Scales		
10:00	Ilaria D'Elia - Evaluating the Italian Air Quality Action Plan: PM ₁₀ Scenarios, Health Benefits, and Implications under the new EU Air Quality Directive		
CB 10:30-11:00			
Chair: Jana Moldanová		Chair: Roberto San José	
Chair: Jana Moldanová		Chair: Matthias Volker	
11:00	Camilla Geels - Health unit damage cost of air pollution for three case areas: based on chemistry transport modelling and an updated health impact assessment model	Polina Iakunina - Detecting methane emissions from landfill and abandoned oil & gas wells using airborne hyperspectral imaging and in situ measurements	Sandro Finardi - FOCI regional climate reconstruction of latest historical period atmospheric composition over Europe
11:20	Patrice Coll - How is the Oxidative Potential a Relevant Metric to Assess the Health Impact of Air Pollution	Jukka-Pekka Keskinen - First indications of PFAS transfer from river water to air at a waterfall	Natalia M. Crespo - FOCI regional climate reconstruction of latest historical period meteorology over Europe
11:40	Karine Sartelet - Lung and olfactory deposition and implications for air-quality mitigation	Agnieszka Bartocha - Development of an agricultural emissions methodology for the national database used in air-quality assessment in Poland	Somayyeh Arghavani - High resolution historical simulations and mid-future climate projections over Europe to quantify the impact of non-CO2 forcers

12:00	Maja Remškar - Selective Measurement of the Numerical Concentration of Respiratory Droplets in Indoor Air as a Tool for Mitigating the Spread of Respiratory Diseases	Magdalena Sofia Anguisola - Unraveling Urban VOC Sources through High-Time-Resolution Measurements in Bilbao (Northern Spain)	Kester Momoh - Regional future projection of atmospheric composition for IPCC SSP 3-7.0 climate pathway over Europe
12:20	Teresa Moreno - Environmental impact of PM10 from crumb rubber flooring used in play-grounds and sport facilities	Inès Makni - Ozone Formation and Mitigation in Ras Laffan (Qatar): A Multiscale Modelling and Inventory Approach	Paola Radice - Evaluating Agricultural Emission Mitigation Strategies for Climate and Air Quality Co-Benefits under Future Scenarios
<i>Lunch 12:40-14:00</i> Chair: Camilla Geels (left), Chair: Roberto San José (center), Chair: Ranjeet Sokhi (right)			
14:00	Matthias Karl - Impacts of an international airport on air quality: how aviation emissions influence the near-residential exposure to ultrafine particles	Akriti Panchbudhe - Assessment of metal contamination of Road Dust and Deposited Aerosols from a Manganese Mining Region, India	Tijian Wang - Development and application on a regional earth system model RegESM from Nanjing University of China
14:20	Steen Solvang Jensen - Spatial health risk map for Europe with indicators of air pollution health risks to the public	Jérémie Achille - Residential Wood Heating as a Source of Indoor Air Pollution: A Review of Recent Evidence	Xin Zeng - Numerical modeling of N ₂ O anthropocentric and natural Emissions for East Asia using a Regional Earth System Model RegESM
14:40	Taos Benoussaid - Contributions to Understanding the Drivers of Exposure Inequalities	Ahlam Al-hanai - Evaluating Fine PM Cytotoxicity in Urban Settings: The San Joaquin Valley, California	Kyung-Hwan Kwak - Impacts of Stratospheric Intrusions and Regional Precursor Emissions on the Vertical Distribution of Summertime Ozone over South Korea
15:00	Philipp Schneider - Tracking the Path to Cleaner Cities: Globally Comparable Urban NO ₂ Trends Observed From Space		Hao Yang - Impact of Cosmic Rays on Lower Stratospheric Ozone Variations Under Solar Activity Modulation
15:20	Matthieu Pommier - NOx emission and lifetime estimates using TROPOMI NO ₂ observations over UK conurbations and industrial clusters.	Andreas Pseftogkas - Influence of transboundary transport on air quality in Germany	Henrik Grythe - Climate induced changes to emissions and Air quality in Oslo towards 2050
<i>CB + Posters 15:40-16:40</i> Chair: Riccardo Buccolieri (left), Chair: Jana Moldanová (center)			
16:40	Efem Bilgiç - Understanding the PM10-AOD Relationship in the Eastern Mediterranean Based on TROPOMI Aerosol Index and Boundary Layer Dynamics	Torleif Weydahl - Air quality management in Norway - Can we reach compliance under the revised Air Quality Directive?	Mihaela Mircea - Vegetation Effects on Meteorology and Air Pollution in Two Italian Cities
17:00	Bruno Augusto - Multi-Sensor Satellite Analysis of Atmospheric Ammonia Variability and Trends over Portugal	Annemarie Kok - Engaging with Art and Air: Mapping the Forces of Art in Raising Awareness on Air Quality	Rafael Borge - Assessment of greenhouse gas emissions and air quality in Madrid by 2030
17:20	Frederik Tack - Airborne characterization of tropospheric NO ₂ and O ₃ over major harbor regions during CINDI-3		Malik Safi Ullah - Assessing the Influence of Rooftop Vegetation on Pollution Dispersion in Urban Canyons through Large-Eddy Simulations
<i>Conference dinner 19:30 - 23:00</i> Friday, June 5, 2026 Refectory (left), Room S5 (center), Room S9 (right) Chair: Ari Karppinen (center)			
9:00	Inès Makni - Seamless integration of Earth-Observation products, in-situ data, and WRF/CHIMERE modelling for Machine Learning enhanced air quality forecasts		
9:30	Bernard Fisher - Can one control air quality by controlling greenhouse gas emissions?		
10:00	Arthur Elessa Etuman - Integrated modelling of urban mobility, emissions and exposure within the IMTECC project for climate-neutral cities		
<i>CB 10:30-11:00</i> Chair: Ari Karppinen (left), Chair: Tomáš Halenka (center), Chair: Sandro Finardi (right)			
11:00	Guillaume Suarez - Online determination of atmospheric oxidative potential: reactivity patterns of DTT and FOX prototypes and implications for harmonized metrics	Anahita Sattari - Mobile quantification of road dust resuspension emission factors under real-world urban driving conditions	Silvia Martinez Martinez - Impacts of Green Infrastructure in idealised urban areas
11:20	Asta Gregoric - Refining Aethalometer eBC source apportionment through advanced aerosol classification with 9-λ absorption and 2D AAE analysis	Lech Gawuc - Feasibility of GPS floating car data for estimation of temporal variability of on-road emissions in Poland	Hao Liu - Afforestation in China Amplifies Temperature Gradients through Biogenic Aerosol Effects
11:40		Jana Moldanova - NECA, compliance and urban exposure: nested European-to-city modelling of shipping-driven air pollution in Gothenburg (2030-2040)	Tianliang Zhao - Role of the Tibetan Plateau thermal forcing in shaping the intra-seasonal oscillation of ozone pollution in Eastern China
12:00		Gytha Mettepenningen - Monitoring of shipping emissions and atmospheric pollutants from a wind farm platform in the North Sea: first results of the SEMPAS project	Silvia Coelho - AIRTIP: Facing the challenges of future air quality regulation in Portugal
12:20	Closing (Refectory) <i>Lunch 12:40-14:00</i>		

1. Development, application and evaluation of air quality related models

- 2. Air quality monitoring and earth observations
- 3. Air Pollution Sources and Emissions
- 4. Health and Environmental Impacts
- 5. Air Quality Policies and Regulations
- & 8. AQ Information Services
- 6. Climate Change and Air Quality Interactions
- 7. Urban Air Quality
- S2. Transport emissions and policies
- S3. Machine learning /AI
- S4. Emissions from agriculture
- S5. Science and policy for clean air and carbon neutral cities
- & S6. From Smart Cities to Citizen Scientists
- & S7. Nature-based solutions