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iLEAPS Global Colloquium Series 2025

Towards climate-smart, resilient, and sustainable cities and settlements

Dr. Alexander Baklanov

Professor

Climate and Geophysics

Niels Bohr Institute, University of Copenhagen

Denmark



Alexander Baklanov is a Professor in Climate and Geophysics at the Niels Bohr Institute of the University of Copenhagen, Denmark, and during last 10 years worked in the Science and Innovation department of the World Meteorological Organization (WMO) in Geneva, Switzerland, where was responsible for urban cross-cutting research activities and programs; a visiting professor in several universities in Europe and Asia. He is a member of the International Eurasian Academy of Sciences and the Academia Europaea, Founding Editor of the Urban Climate journal, Board Member of International Association for Urban Climate. He led a number of international projects on urban climate and environmental risk (e.g. ArcticRISK, NordRisk, FUMAPEX, MEGAPOLI, EnviroRISKS, EuMetChem, EnviroHIRLAM, PEEEX MP, IMTECC, IUS4CRC), a lead author for IPCC SR on Climate Change and Cities, a member of GEO Resilient Cities and Human Settlements WG, Science Advisory Board of the WCRP CORDEX URB-RCC, EU projects CARMINE, RI-URBANS, etc. He has published about 400 scientific publications, including 15 books and about 300 peer-reviewed journal papers, h-index = 60, supervised 15 PhD students.

Abstract: The third United Nations Conference on Housing and Sustainable Urban Development (HABITAT-III) in October 2016 adopted the New Urban Agenda (United Nations, 2017), which brings into focus urban resilience, climate and environment sustainability, and disaster risk management. To support implementation of urban activities the WMO inter-programme Urban Expert Team under the Commission for Atmospheric Sciences and Commission for Basic Systems (2018) supported by a dedicated team of urban focal points in the Secretariat developed the Guidance on Integrated Urban Hydro-Meteorological, Climate and Environmental Services (IUS). The ways and approaches, as well as priorities for realization of such systems depend on specific climatic, geographical, economic and environmental conditions specific cities. In this presentation we will classify and consider different approaches, methodologies and tools for selected cities in different climate zones (e.g. northern, tropical), economic conditions (developed and developing worlds) and combinations of risk factors (e.g., multi-hazards, heat stress, floods, air quality). Specific focus will also be done on the mitigation and adaptation strategies and their combinations.

[Registration Link: https://ukceh-ac-uk.zoom.us/j/9753862019](https://ukceh-ac-uk.zoom.us/j/9753862019)

Convenor: Dr. Pallavi Saxena, iLEAPS SSC Member

Moderator: Dr. Semeena V. Shamsudheen, iLEAPS IPO