



The Motion of Particles in Turbulence

Guest Editors:

Prof. Dr. Bogdan Rosa

Department of COSMO - Centre
of Numerical Weather Prediction,
Institute of Meteorology and
Water Management, Podleśna 61,
01-673 Warsaw, Poland

Dr. Suvash C. Saha

School of Mechanical and
Mechatronic Engineering, Faculty
of Engineering & Information
Technology, University of
Technology Sydney, Broadway,
NSW 2007, Australia

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Message from the Guest Editors

Dear Colleagues,

The turbulent transport of mineral dust, aerosol or cloud droplets occurs continuously with different intensity and at different scales. A thorough analysis of these multiscale and multiphase flows is an important research task for a better understanding of atmospheric processes.

In the area of environmental engineering, knowledge is important for predicting the dispersion of industrial pollution, and thus reducing the risk of environmental disasters. Another well-known growing problem is so-called low emission, the source of which are motorization and coal furnaces. Further, the knowledge is central for meteorological applications.

Today, the mesoscale numerical weather prediction (NWP) models provide regular forecasts at horizontal resolutions. A thorough analysis of turbulent transport should allow developing more realistic parameterization of cloud microphysical processes in the NWP systems.

We would like to invite you to contribute articles to this Special Issue by reporting on numerical, observational, and experimental studies that address this topic.

Dr. hab. Bogdan Rosa, prof. IMGW-PIB
Guest Editor





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Editor-in-Chief

Dr. Daniele Contini

Institute of Atmospheric Sciences
and Climate (ISAC), National
Research Council (CNR), Str. Prv.
Lecce-Monteroni km 1.2, 73100
Lecce, Italy

Message from the Editor-in-Chief

Continued developments in instrumentation and modeling have driven atmospheric science to become increasingly more complex with a deeper understanding of concepts, mechanisms, and interactions. This is the field that innovation built and it has led to a better appreciation for the complexity with atmosphere. Human life is intertwined in this complexity as we strive to better understand our atmosphere. Climate change is constantly stretching the limits of our thinking and forcing new ideas and concepts to be played out. Welcome to the Anthropocene!

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Atmosphere Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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