

Thursday, 4th of May 2023

Breakfast

08:30 – 09:30 **Keynote Lecture: Susanne Horn** (Coventry)
Large-scale circulation modes in turbulent liquid metal convection

09:30 – 10:00 Behdad Ghaffari (München)
Scalable visual analysis of turbulent superstructures

10:00 – 10:30 Coffee Break

10:30 – 11:00 Florian Heyder (Ilmenau)
Towards a Machine Learning-based Parameterization of the Atmospheric Boundary Layer

11:00 – 11:30 Marc Avila (Bremen)
Long-term dynamics of large-scale structures in turbulent wall-bounded flows

11:30 – 12:00 Detlef Lohse (Enschede)
Melting of ice

12:15 – 13:30 Lunch at Seeheim's eat & meet

13:30 – 14:30 **Keynote Lecture: Andrea Beck** (Stuttgart)
Towards data-driven turbulence simulations

14:30 – 15:00 Tobias Vogt (Dresden)
Experimental investigation of superstructures in turbulent liquid metal convection

15:00 – 15:30 Andrei Teimurazov (Göttingen)
Heat transfer and flow regimes in liquid metal magnetoconvection with a horizontal magnetic field

15:30 – 16:00 Coffee Break

16:00 – 16:30 Cheng Chi (Magdeburg)
mPOD of very-large-scale motions in turbulent channel flow and its dynamic interactions with the flame

16:30 – 17:00 Holger Theisel (Magdeburg)
Autonomous Particles for In-Situ-Friendly Flow Map Sampling

17:00 – 17:30 Philipp Vieweg (Ilmenau)
Large-scale flow structures in turbulent Rayleigh-Bénard convection: Dynamical origin, formation, and role in material transport

17:30 – 18:00 Rui Yang (Enschede)
Convection in melt ponds

19:00 Dinner at Seeheim's eat & meet

Friday, 5th of May 2023

Breakfast

08:30 – 09:30 **Keynote Lecture: Christina Vanderwel** (Southampton)
Turbulence in Urban Aerodynamics

09:30 – 10:00 Christian Kähler (München)
What we have learned from 6 years of turbulent boundary layer research in the atmospheric wind tunnel

10:00 – 10:30 Coffee Break

10:30 – 11:00 Stephan Weiss (Göttingen)
Analysis of Coherent Structures in Turbulent Rayleigh-Bénard Convection by Time-Resolved Lagrangian Particle Tracking and Temperature Sensitive Paint

11:00 – 11:30 Jörg Schumacher (Ilmenau)
Quantum Machine Learning algorithms for turbulent convection flows

11:30 – 11:40 Closing, Jörg Schumacher

11:50 – 12:50 Lunch at Seeheim's eat & meet

13:00 Departure