

MEZ (Middle European Time): 10:30

KST (South Korean Standard Time): 18:30

18:30 -18:40 (10:30 – 10:40)

Opening Remarks

Sabine Roller (STS, Zimt, University of Siegen)

Osni Marques(Scalable Solvers Group, Lawrence Berkeley National Laboratory)

18:40 – 19:25 (10:40 – 11:25)

Invited Talk:

19:25 – 19:35 (11:25 – 11:35)

Break

19:35 – 19:50 (11:35 – 11:50)

Talk: Multi-scale Modelling of Urban Air Pollution with Coupled Weather Forecast and Traffic Simulation on HPC Architecture

László Környei (Széchenyi István University), Zoltán Horváth, Ákos Kovács, Bence Liszkai, Andreas Ruopp

19:50 – 20:05 (11:50 – 12:05)

Talk: Advantages of Space-Time Finite Elements for Domains with Time Varying Topology

Norbert Hosters (RWTH Aachen), Maximilian von Danwitz, Patrick Antony, Marek Behr

20:05 – 20:20 (12:05 – 12:20)

Talk: Molecular-Continuum Flow Simulation in the Exascale and Big Data Era

Philipp Neumann (Helmut-Schmidt University), Vahid Jafari, Piet Jarmatz, Felix Maurer, Helene Wittenberg, Niklas Wittmer

20:20 – 20:30 (12:20 – 12:30)

Break

20:30 – 20:45 (12:30 – 12:45)

Talk: An efficient halo approach for Euler-Lagrange simulations based on MPI-3 shared memory

Patrick Kopper (University of Stuttgart), Marcel Pfeiffer, Stephen Copplestone, Andrea Beck

20:45 – 21:00 (12:45 – 13:00)

Talk: Node-level Performance Optimizations in CFD Codes

Peter Wauligmann (High Performance Computing Center Stuttgart (HLRS)), Jakob Dürrwächter, Philipp Offenhäuser, Adrian Schlottke, Martin Bernreuther, Björn Dick

21:00 – 21:10 (13:00 – 13:10)

Closing Remarks

Sabine Roller (STS, Zimt, University of Siegen)

Osni Marques(Scalable Solvers Group, Lawrence Berkeley National Laboratory)