

Droplet Interaction Technologies DROPIT (GRK 2160/2) Hybrid Doctoral Seminar 2023 – AGENDA

Wednesday, 01.03.2023:

- 09:00 - 09:15 Welcome and start of the Ph.D. seminar
- 09:15 - 09:45 **Project C1: Stefan Schubert**
Micro and macro drop impact dynamics with miscible liquids
- 09:45 - 09:55 **Project C1-3: Pablo Molina-Vogelsang**
Self-introduction
- 09:55 - 10:25 **Project C2: Jonathan Stober**
Oblique drop impact onto a wetted wall
- COFFEE BREAK**
- 10:45 - 11:15 **Project C4: Daniel Klötzl**
Visualization of droplet-liquid interaction
- 11:15 - 11:45 **Project C5: Anne K. Geppert**
Droplet surface interaction
- 11:45 – 12:15 **Project B1: Patrick Palmetshofer**
Droplet collisions with solid superhydrophilic surfaces
- 12:15 - 12:25 **Project B4: Hasel-Cicek Konan**
Self-Introduction
- LUNCH**
- 13:30 - 14:00 **Project B5: Weibo Ren**
Numerical computation for drop impact on textured surfaces
- 14:00 – 14:10 **Project B5-3: Rishav Saha**
Self-introduction
- 14:10 -14:40 **Project B6: Maziar Veyskarami**
Coupled free flow-porous media flow processes including drop formation
- 14:40 – 14:50 **Project B6: Anna-Mareike Kostelecky**
Self-introduction
- 14:50 – 15:00 **Project A1: Yueqiao Hu**
Self-Introduction
- COFFEE BREAK**
- 15:20 -16:50 **StartUp funding: Simone Chiocchetti**
Practical solutions and open problems of a unified model of fluids and solids
- 16:50-17:30 DROFIT Internal: Administrative Issues
- 17:30 End of the first day
- 19:00 Diner Greek Restaurant at Campus Vaihingen

Thursday, 02.03.2021:

- 09:00 – 09:15 Welcome and start of the second day of the PhD seminar
- 09:15 – 09:45 **Project A2: Pascal Mossier**
Multi-Scale modelling of the evaporation process
- 09:45 – 10:15 **Project A3: Raphael Tietz**
Gas-kinetic simulation of microdroplet – gas interaction
- 10:15 – 10:25 **Project A3-3: Claudia Marianowski**
Self-introduction
- COFFEE BREAK**
- 10:45 – 10:55 **Project A4: Davide Ferrari**
Self-Introduction
- 10:55 – 11:25 **Project A6: Daniel Appel**
Multi-Scale Modelling of Compressible Droplet Clustering for Lagrangian Models
- 11:25 – 11:55 **Associated Project 1: Verena Kunberger**
Interaction of supercooled droplets
- 11:55 – 12:25 **Associated Project 2: Yanchao Liu**
Simulation of high-speed droplet on a cylindrical pillar
- LUNCH**
- 13:30 – 14:00 **Associated Project 3: Francesco Carlo Massa**
High-order numerical methods for multi-component incompressible flows in pools
- 14:00 – 14:30 **Associated Project 4: Dennis Hoch**
Oil mist deposition in textile filters – from nano CT-Scans to CFD simulations
- 14:30 – 15:00 **Associated Project 5: Melanie Lipp**
"Finite-volume and finite-difference methods for the Navier-Stokes equations with constant density and viscosity on refined grids with pressures in cell centres, velocities on cell faces and rectangular control volumes for free flow e.g. above a droplet-shaped obstacle"
- 15:00 Summary and end of doctoral seminar

Presentation mode:

Regular presentations should be about 20 minutes plus additional 10 minutes for discussion. Self-introductions shall be 5 to 10 minutes.

On-site meeting location:

International Meeting Center – Eulenhof, Universität of Stuttgart
Robert-Leicht-Straße 161, 70569 Stuttgart

Webex Meeting Information

Meeting link:

<https://unistuttgart.webex.com/unistuttgart/j.php?MTID=mc14a92e13e1603fae901b078cc94e15e>

Meeting number: 2732 073 2325

Password: HBe2cAMfX34

Host key: 332438

Join via telephone:

+49-619-6781-9736 Germany Toll

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Meeting number: 2732 073 2325

Host-PIN: 7847