

# Droplet Interaction Technologies - DROPIT (GRK 2160/1)

## Doctoral Seminar – AGENDA

### Wednesday, 11.4.2018:

8:45-9:00 Welcome and start of the PhD seminar

9:00- 9:30 **Project A1: Gautham Varma Raja Kochanattu**  
Modelling of deformed, multi-component liquid drop evaporation

9:30-10:00 **Project A2: Christoph Müller**  
Multi-scale modelling of the evaporation process

#### BREAK

10:30-11:00 **Project A3: Wladimir Reschke**  
Gas-kinetic simulation of microdroplet - gas interaction

11:00-11:30 **Project A4: Simone Chiochetti**  
Numerical methods for compressible multi-phase flows with complex equations of state

11:30-12:00 **Project A6: Jonas Zeifang**  
Mathematical and numerical modelling of droplet dynamics in weakly compressible multi-component flows

12:00-13:00 **LUNCH**

13:00-13:30 **Project B1: Patrick Foltyn**  
Droplet collisions with solid superhydrophilic surfaces

13:30-14:00 **Project B3: Robert Haide**  
Charakterization of porous media by X-ray micro computed tomography

#### BREAK

14:30-15:00 **Project B4: Lukas Ostrowski**  
Compressible effects in droplet interactions with textured walls

15:00-15:30 **Project B5: Martina Baggio**  
Numerical computation for drop impact on textured surfaces

#### BREAK

16:00-16:30 **Project B6: Sina Ackermann**  
Upscaling of coupled free-flow porous media flow processes

16.30-17:00 **Project C1: Ronan Bernard**

- Micro and macro drop impact dynamics with miscible liquids
- 17:00 – 17:15 Presentation of new homepage of DROPIT
- 19:00 **DINNER: Greek Restaurant on the Campus (“Der Grieche”)**

**Thursday, 12.4.2018:**

8:30 Welcome and start of the second day of the PhD seminar

8:30 -9:00 Workshop at DIPSI in Bergamo in May 2018

9:00-9:30 **Project C4: Alexander Straub**

Visualization of droplet-liquid interaction

9:30-10:00 **Project C5: Visakh Vaikuntanathan**

Development of novel optical technique for micro-fluid dynamics

**BREAK**

10:30-11:00 **Associated Project 1: Anne Geppert**

Splashing with multicomponent fluids

11:00-11:30 **Associated Project 2: Francescocarlo Massa**

High-order numerical methods for multi-component incompressible flows

**BREAK**

11:30-12:00 **Associated Project 3: Karin Schlottke**

DNS of multi-component droplet evaporation

**LUNCH**

13:00 Summary and end of doctoral seminar