DROPII Summer School 2022
June 9th – 30th
Stuttgart, Germany
and
Bergamo, Italy

Projects

P1) Numerical and Experimental Investigation of Grouping Behavior in Monodisperse Droplet Streams
Participants: D. Appel (SP-A6)
Guests: M. Ibach (University of Stuttgart)
V. Vaikuntanathan (Shiv Nadar University)

P2) Evaporation in a Coupled Free Flow–Porous Medium System Including Droplets on the Interface
Participants: M. Veyskarami (SP-B6)
R. Helmig (University of Stuttgart)
C. Bringedal (University of Bergen)
M. Santini (University of Stuttgart)
S. Fest-Santini (University of Bergamo)
Guests: A. Raoof (University of Arizona)

P3) Application of the General Defocusing Particle Tracking Method to Analyze the Three-Dimensional Flow Field during Droplet Impact
Participants: S. Schubert (SP-C1)
A. Geppert (SP-C5)
Guests: M. Rossi (Technical University of Denmark)

P4) Investigation of Surface Tension Effects on Evaporating Droplets with Micro and Macroscopic Model
Participants: R. Tietz (SP-A3)
P. Mossier (SP-A2)
S. Tonini (University of Bergamo)
J. Keim (University of Stuttgart)
S. Franke (University of Stuttgart)

P5) Topological Visualization Methods to Analyze Drop Impacts
Participants: D. Klötzel (SP-C4)
P. Palmetshofer (SP-B1)
W. Ren (SP-B5)
S. Schubert (SP-C1)

P6) Experimental and Numerical Investigation of Droplet Impacts onto Pillars with a Wetted Base
Participants: P. Palmetshofer (SP-A1)
W. Ren (SP-B5)

P7) Investigation of Early Phase Contact Line Movement During Droplet Impact to Improve the Analytical Crown Base Model (Experiments, Numerical Simulation, Analytics)
Participants: A. Geppert (SP-C5)
J. Stober (Sp-C2)
F. Massa (University of Bergamo)
S. Schubert (SP-C1)

Projects

Projects

Contact

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WebEx Meeting Information
https://unistuttgart.webex.com/unistuttgart/j.php?
MTID=mef277d247c7eac503fa12b84f42f2ab
Access Code: 2734 415 0247
Password: DROPIT2022

GRK 2160/2: DROPII
https://www.project.uni-stuttgart.de/dropit/
Come Together  
9th of June  
19:00  
Naturfreundehaus  
Bönauer Rain 1  
Stuttgart-Vaihingen  
(25min walk from Hotel Römerhof)

Kick-Off Meeting  
10th of June  
8:45 – 14:45  
International Meeting Centre - Eulenhof  
University of Stuttgart  
Robert-Leicht-Straße 161  
(10min walk from Hotel Römerhof)

Final Meeting  
30th of June  
8:45 – 16:15  
Sala Conferenze, San't Agostino  
Bergamo

Closure Dinner  
30th of June  
N.A.  
Bergamo

Program* | Kick-Off Meeting | 10th of June
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8:45 | Arrival & Coffee |  
9:00 | Welcome Speech and Introduction into Dropit  
Prof. Weigand & Prof. Cossali |  
9:15 | Keynote Talk by Dr. Visakh Vaikuntanathan  
An overview of some experimental investigations on droplet interaction with solid, liquid, and air |  
9:50 | Project Introduction  
P1) Numerical and Experimental Investigation of Grouping Behavior in Monodisperse Droplet Streams |  
10:10 | Project Introduction  
P2) Evaporation in a Coupled Free Flow-Porous Medium System including Droplets on the Interface |  
10:30 | Coffee break |  
11:00 | Project Introduction  
P3) Application of the General Defocusing Particle Tracking Method to Analyze the Three-Dimensional Flow Field during Droplet Impact |  
11:20 | Project Introduction  
P4) Investigation of Surface Tension Effects on Evaporating Droplets with Micro and Macroscopic Models |  
11:40 | Project Introduction  
P5) Topological Visualization Methods to Analyze Drop Impacts |  
12:00 | Lunch |  
13:20 | Project Introduction  
P6) Experimental and Numerical Investigation of Droplet Impacts onto Pillars with a Wetted Base |  
13:40 | Project Introduction  
P7) Investigation of Early Phase Contact Line Movement during Droplet Impact to Improve the Analytical Crown Base Model (Experiments, Numerical Simulation, Analytics) |  
14:00 | Keynote Talk by Prof. Shamit Bakshi  
Evaporation induced flow around a pendant droplet evaporating in atmospheric condition |  
14:45 | Coffee break |  
15:15 | Project Results  
P6) Experimental and Numerical Investigation of Droplet Impacts onto Pillars with a Wetted Base |  
15:45 | Project Results  
P7) Investigation of Early Phase Contact Line Movement during Droplet Impact to Improve the Analytical Crown Base Model (Experiments, Numerical Simulation, Analytics) |  
16:15 | Closing |  
*) Program will be streamed via Webex, see Contact

Program* | Final Meeting | 30th of June
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8:45 | Arrival & Coffee |  
9:00 | Introductory remarks  
Prof. Weigand & Prof. Cossali |  
9:20 | Cooperation between the University of Bergamo and the University of Stuttgart  
Prof. Cavalieri, Prof. W. Ressel (Rectors of both Universities) |  
9:50 | Coffee break |  
10:20 | Keynote Talk by Prof. David Katoshevski  
Grouping Principles and Applications |  
10:45 | Project Results  
P1) Numerical and Experimental Investigation of Grouping Behavior in Monodisperse Droplet Streams |  
11:15 | Coffee break |  
11:45 | Project Results  
P2) Evaporation in a Coupled Free Flow-Porous Medium System including Droplets on the Interface |  
12:15 | Project Results  
P3) Application of the General Defocusing Particle Tracking Method to Analyze the Three-Dimensional Flow Field during Droplet Impact |  
12:45 | Lunch |  
13:45 | Project Results  
P4) Investigation of Surface Tension Effects on Evaporating Droplets with Micro and Macroscopic Models |  
14:15 | Project Results  
P5) Topological Visualization Methods to Analyze Drop Impacts |  
14:45 | Coffee break |  
15:15 | Project Results  
P6) Experimental and Numerical Investigation of Droplet Impacts onto Pillars with a Wetted Base |  
15:45 | Project Results  
P7) Investigation of Early Phase Contact Line Movement during Droplet Impact to Improve the Analytical Crown Base Model (Experiments, Numerical Simulation, Analytics) |  
16:15 | Closing |  
*) Program will be streamed via Webex, see Contact