

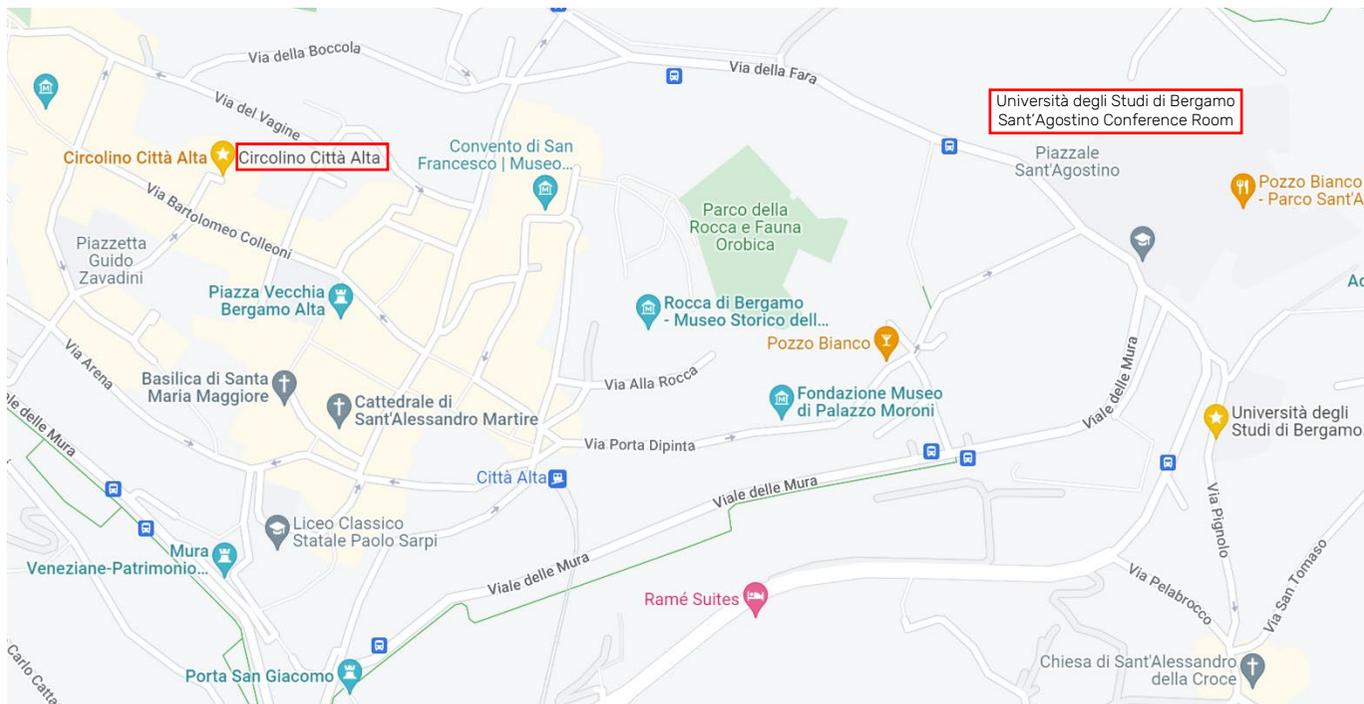
Conference venue



Sant'Agostino Conference Room
Via Fara, 24129 Bergamo

<https://goo.gl/maps/8n36WxNGWeS2>

Connections are guaranteed by taxi or bus line 1 (ticket for "zona 1- tariffa A") starting from the train station.



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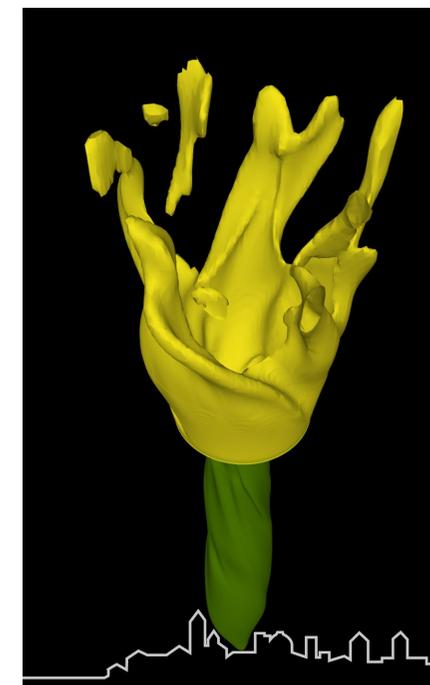


UNIVERSITÀ
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Department
of Engineering
and Applied Sciences

DIPSI Workshop 2024

Droplet Impact Phenomena
& Spray Investigations



VOF simulation of in-nozzle air core in a watermist atomiser

Bergamo, 17th June 2024

Workshop goals

This is the sixteenth edition of the workshop on droplet impact phenomena and spray investigations organised by the University of Bergamo. It represents an important opportunity to share the recent knowledge on droplets and sprays in a variety of research fields and industrial applications.

DIPSI WORKSHOP Program

16th June 2024, Sunday

20:00 Dinner at Ristorante Circolino Città Alta, Vicolo Sant'Agata 19, 24129 Bergamo.

17th June 2024, Monday

08:45 Registration

09:00 Welcome speech

09:15 S1 Numerical methods

9:15 M. Ibach, N. Roth, S. Tonini, G.E. Cossali, B. Weigand, *Numerical and Analytical Study of Large Amplitude Shape Oscillations of Viscous Droplets*

9:40 R. Tietz, S. Fasoulas, and M. Pfeiffer, *Enskog-Vlasov Simulations in High Pressure Environments*

10:05 Coffee break

10:50 S2 Drop/wall interaction

10:50 R. Akbari, P. Sartipizadeh, M. Reza Mohammadizadeh, C. Antonini, *Increasing fog harvesting efficiency through hydrophobizing steel meshes*

11:15 A. Sinhaa, A. Georgoulas, M. Santin, *Which wound dressing is better for rapid absorption of wound exudate?*

11:40 A. Amoresano, S. Roscioli, M. Dedes, *Characterisation of non-toxic hull paints by static and dynamic droplet impact investigation*

12:05 Lunch break

13:30 Poster session

J. Wurst, K. Schulte, *Simulation framework for drop impacts on structured surfaces using PLIC-based contact line modeling*

R. Saha, B. Weigand, *DNS of droplet impact onto heated surfaces*

A. K. Geppert, D. B. Brajer, M. Marengo, *Mechanism behind the Generation of a Rectangular Liquid Umbrella after Droplet Impact onto a Small Square Surface*

S.S. Sazhin, D.V. Antonov, E.M. Starinskaya, V. Terekhov, S.V. Starinskiy, *Heating and evaporation of sessile droplets: new models of the processes*

D. Klötzl, D. Weiskopf, *NMF-Based Analysis of Droplet Wall-Film Interactions*

R. Dhar, K. Schulte, *Investigation of droplet-pool phenomena and droplet-film interaction for immiscible fluids*

14:00 S3 Phase change

14:00 S.S. Sazhin, S. Tonini, G.E. Cossali, D.V. Antonov, P.A. Strizhak, *New approaches to modelling heat/mass transfer processes in spherical and non-spherical mono-component droplets*

14:25 V.Kunberger, B. Weigand, *The influence of heat transfer on the outcome of droplet collisions of supercooled water droplets*

14:50 S4 Drop Impact

14:50 P. Palmeshofer, B. Weigand, *Splashing modes in droplet impacts onto sub-millimeter microstructures*

15:15 J.L. Stober, K. Schulte, *Investigation of the Flow Field at the Wall during an Oblique Droplet Impact onto a Thin Wall Film*

15:40 Coffee break

16:30 Workshop closure



DIPSI Workshop 2023, Bergamo 16th June 2023