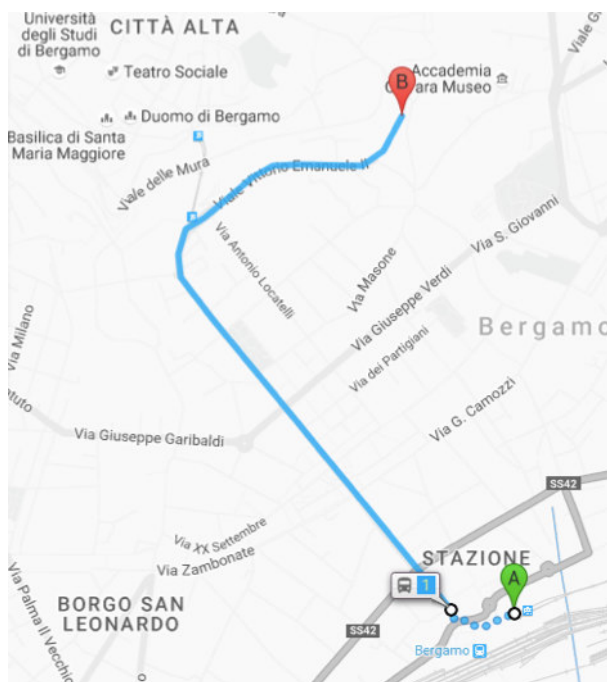


Conference venue



Sant'Agostino Conference Room
Via Fara, 24129 Bergamo

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



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



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Organisation committee

G. E. Cossali (Chairman)
S. Fest-Santini
M. Santini
S. Tonini

Organisation information

To register to the event please send an e-mail with your data (name, affiliation, address and the date of arrival) to simona.tonini@unibg.it

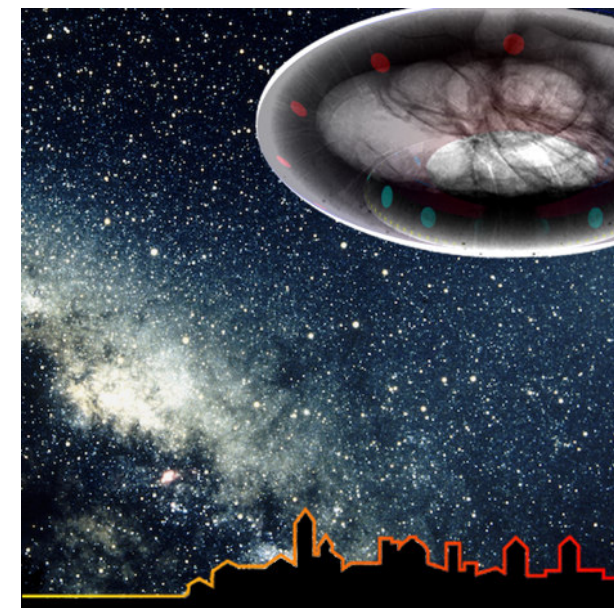
The workshop registration is free.



UNIVERSITÀ DEGLI STUDI DI BERGAMO
DEPARTMENT OF ENGINEERING AND APPLIED SCIENCES

DIPSI Workshop 2017

Droplet Impact Phenomena
& Spray Investigations



Phase change transition of oblate shaped particle in free convection

Bergamo, 26th May 2017

DROPIT
Doctoral seminars

25th May 2017

Workshop goals

This is the eleventh 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.

DROPIT: Doctoral seminars

On **25th May 2017**, in the same location of the DIPSI Workshop, a series of doctoral seminars will be presented within the International Research Training Group on the topics of Droplet Interaction Technologies (GRK 2160, DROPIT), leaded by Universität Stuttgart, in partnership with Università degli Studi di Bergamo and Università degli Studi di Trento.

<http://www.uni-stuttgart.de/itlr/graduierten/dropit.php>

Preliminary program

25th May 2017, Thursday

13:00 DROPIT: Doctoral seminars

20:00 Dinner at Ristorante Caffè Funicolare, Via Porta Dipinta 1, 24129 - Bergamo

26th May 2017, Friday

08:30 Registration

09:00 Welcome speech

09:15 S1: Dispersed flow investigation

09:15 A. Papoutsakis, S.S. Sazhin, *Modelling of the Evolution of a Droplet Cloud in a Turbulent Flow.*

09:45 A. Amoresano, G. Langella, L. Allocca, A. Montanaro, *Spray Behaviour Analysis by Using Big Data Approach.*

10:15 Coffee break

10:45 S2: Drop/wall interaction

10:45 J.B. Lee, S. dos Santos, C. Antonini, *Wetting, dewetting and bouncing on a viscoelastic bitumen surface.*

11:15 E. Teodori, P. Pontes, A.S. Moita, A.L.N. Moreira, A. Georgoulas, M. Marengo, *Experimental and Numerical Study on Sensible Heat Transfer at Droplet impingement.*

11:45 I.V. Roisman, P. Seiler, M. Schremb, C. Tropea, *Dislodging and solidification of a supercooled drop on a dry substrate.*

12:15 Lunch break

13:40 Poster session

13:40 B. Weigand, *DROPIT speech.*

S. Ackermann, *Upscaling of coupled free-flow and porous-media-flow processes.*

M. Baggio, *Numerical computation for drop impact on textured surfaces.*

R. Bernard, *Micro and Macro Drop Impacts Dynamics with Miscible Liquids.*

G.E. Cossali, S. Ravasio, S. Tonini, *Analytical modelling of spheroidal drop evaporation with non-uniform temperature conditions.*

C. Mueller, *Sharp interface methods for droplet simulations.*

L. Ostrowski, *Compressible Effects in Droplet Interactions with Textured Walls.*

V. Reschke, *Gas-kinetic Simulation of Microdroplet-Gas Interaction.*

A. Straub, *Visualization of Interface Instabilities and Droplet Internal Flow.*

K. Vontas, M. Andredaki, A. Georgoulas, K.-S. Nikas, M. Marengo, *Numerical Investigation of Droplet Impact on*

Surfaces with Different Wettability, Utilising Different Contact Angle Treatments.

J. Zeifang, *Investigation of a splitting scheme for the weakly compressible Euler equations.*

V. Zubkov, G.E. Cossali, S. Tonini, C. Crua, S.S. Sazhin, *Mathematical modelling of heating and evaporation of an oscillating droplet.*

14:30 S3: Two-phase flow phenomena

14:30 V. Schleper, *Thermodynamically consistent multiphase flow models in industrial applications.*

15:00 Y. Karathanassis, P. Koukouvinis, M. Gavaises, *X-ray phase-contrast measurements and CFD simulations of cavitation in a Diesel nozzle orifice replica.*

15:30 Coffee break

16:00 Workshop closure

Publication

A successive publication of the works presented during the workshop will be made as short communication format. Anyone, who has contributed to the workshop with oral or poster presentation, will be asked to send us a manuscript by **30th June 2017**. We will include it in a CD-ROM with ISBN which will be distributed to all the participants.