



Surface Wettability Effects on Phase Change Phenomena

SWEP WORKSHOP

17th – 18th May 2018

Hilton Metropole Hotel
Brighton Seafront

Registration
open now

We are very glad to announce that we are launching the first workshop SWEP “**Surface Wettability Effects on Phase Change Phenomena**” in Brighton, UK.

The workshop will start at 2pm on Thursday 17 May and terminates early in the afternoon of Friday 18 May.

The workshop aims at providing a forum for researchers to exchange knowledge on two-phase flows experiments, modelling and simulation, to discuss with worldwide experts their current research, and to propose a better comprehension on the effect of surface wettability on phase-change phenomena.

Specific topics include (but are not limited to):

- Experimental techniques to measure the variation of phase change phenomena in presence of a surface with different wettability.
- Modelling of the effect of wettability on boiling
- Molecular dynamics simulations of phase change phenomena
- Mesoscale phenomena
- Mathematical models and computational techniques for phase change processes

Eight invited lecturers will give stimulating lectures on various topics related to SWEP. They will offer a panoramic view of the field and on the most recent results.

INVITED LECTURERS

Nine invited lecturers will give stimulating lectures on various topics related to SWEP:



David Brutin
Polytech' Marseille, France
“Droplet Wetting and Evaporation: From Pure to Complex Fluids”



Daniel Attinger
Iowa State University, USA
“What is the optimum wettability of a pool boiling heater?”



Paolo di Marco
University of Pisa, Italy
“Wettability, gravity and electric field effects on local heat flux at triple line”



Carlo Antonini
EMPA, Switzerland
“Licence to freeze: understanding and controlling ice formation on surfaces”



Davide del Col
University of Padova, Italy
“Heat transfer enhancement during condensation over wettability-control surfaces”



Vadim Nikolayev
CEA, France
“Evaporation effect on the contact angle and contact line dynamics”



James Sprittles
University of Warwick, UK
“Kinetic Effects in Interfacial Flows”



Rohit Pillai
University of Edinburgh, UK
“Dynamics of Liquids on Vibrating Surfaces”



Yukihiro Yonemoto
Kumamoto University, Japan
“A Multi-scale Multiphase Flow Gas-Liquid-Solid Interfacial Equation Based on Thermodynamic and Mathematical Approaches”

WORKSHOP CHAIRS:

Prof. Marco Marengo, University of Brighton
Prof. Joel De Coninck, University of Mons

ABSTRACTS

We invite you to submit abstracts presenting the results of your original research in the area of experiments, modelling and simulation of wettability effects. The abstract should be written in one single page. An example will be available in the website or be available upon request to dorothea.friedrich@umons.ac.be

The accepted abstracts will be included in a **poster session** during the workshop. Send your abstracts via email to Dorothee Friedrich at dorothea.friedrich@umons.ac.be

- Abstract submission is 28 February 2018
- Acceptance of the abstract 15 March 2018
- Submission of the final abstract 30 March 2018

WORKSHOP FEES:

(INCLUDING THE ACCOMMODATION)

Early bird registration	£300
Regular registration	£350

Price includes full workshop attendance, overnight accommodation at the **Hilton Metropole Hotel** and all meals and refreshments including a three course gala dinner of Thursday evening at the Hilton. The Hilton Metropole is a four star hotel located in the heart of the city with stunning sea views.

The number of participants will be a minimum of 20 and a maximum of 50.

REGISTRATION OPEN NOW

Visit <https://delegate.brighton.ac.uk/swep2018> to register and pay for your place on the workshop.

Places are limited so book now to avoid disappointment!