

Surface Wettability Effects on Phase Change Phenomena

SWEP WORKSHOP PROGRAMME

THURSDAY 17 MAY

13.00	On-site registration desk and coffee
13.45	Introduction to the workshop – Joel De Coninck / Marco Marengo
14.00	Kinetic effects in interfacial flows - Prof. James Sprittles, University of Warwick Mathematics Institute, Coventry, United Kingdom – Chair: Joel De Coninck
14.45	Multi-scale multiphase flow gas-liquid-solid interfacial equation based on thermodynamic and mathematical approaches - Prof. Yukihiro Yonemoto, Advanced Thermal and Fluid Energy System, Division of Energy Science, Faculty of Advanced Science and Technology, Kumamoto University, Japan - Chair: Joel De Coninck
15.30	Evaporation effect on the contact angle and contact line dynamics - Prof. Vadim Nikolayev, Laboratory of Condensed Matter Physics, Alternative Energies and Atomic Energy Commission at Saclay, Gif sur Yvette Cedex, France - Chair: Marco Marengo
16.15	Coffee break
16.45	Droplet wetting and evaporation: from pure to complex fluids - Prof. David Brutin, IUSTI UMR CNRS - Polytech' Marseille, Mechanical Engineering Dept., Marseille, France - Chair: Marco Marengo
17.15	Introduction to the poster session – Joel De Coninck / Marco Marengo
17.30	Poster session 1
20.00	Drinks reception followed by dinner

FRIDAY 18 MAY

8.30	What is the optimum wettability of a pool boiling heater? - Prof. Daniel Attinger, Iowa State University, Department of Mechanical Engineering, Ames, USA - Chair: MM
9.15	Licence to freeze: understanding and controlling ice formation on surfaces - Dr. Carlo Antonini, EMPA - Swiss Federal Laboratories for Materials Science and Technology, Dübendorf, Switzerland - Chair: Joel De Coninck
10.00	Coffee break
10.30	Heat transfer enhancement during condensation over wettability-control surfaces - Prof. Davide Del Col, Università degli Studi di Padova, Dipartimento di Ingegneria Industriale, Padova, Italy - Chair: Joel De Coninck
11.15	Wettability, gravity and electric field effects on local heat flux at triple line - Paolo Di Marco, DESTEC, School of Engineering, University of Pisa, Pisa, Italy - Chair: MM
12.00	Dynamics of liquids on vibrating surfaces - Dr. Rohit Pillai, University of Edinburgh, Edinburgh, UK - Chair: MM
13.00	Lunch
14.00	Introduction to the poster session – Joel De Coninck / Marco Marengo
14.15	Poster session 2
15.15	Closure of the workshop