

Superhydrophobicity, bubble stability, and heterogeneous nucleation

Day	Time	Speaker	Title	Affiliation
25/06/2014	8.00-9.00	Registration		
	9.00-9.30	Carlo M. Casciola	<i>Presentation of the workshop</i>	Sapienza Università di Roma, Italy
	Session 1. (Chair: G. Mistura)			
	9.30-10.15	Bharat Bhushan	<i>Biomimetics: Bioinspired Superomniphobic, Self-Cleaning/Antifouling and Low Drag Surfaces</i>	Ohio State University, USA
	10.15-10.45	Coffee Break		
	10.45-11.30	David Quéré	<i>Superhydrophobicity, bubble stability without heterogeneous nucleation: the Leidenfrost effect</i>	PMMH and LadHyX, France
	11.30-12.15	Kripa Varanasi	<i>Nanoengineered Surfaces for Controlling Wetting Dynamics and Phase Transitions</i>	Massachusetts Institute of Technology, USA
	12.15-13.00	Anish Tuteja	<i>Designing Surfaces with Extreme Wettabilities</i>	University of Michigan, USA
	13.00-14.00	Lunch		
	Session 2. (Chair: S. Meloni)			
	14.00-14.45	Siegfried Dietrich	<i>Structure and dynamics of fluid interfaces at patterned substrates</i>	Max-Planck Institute for Intelligent Systems, Germany
	14.45-15.30	Fernando Escobedo	<i>Thermodynamics and kinetics of transitions from metastable states at nanoscale interfaces: droplets and bubbles</i>	Cornell University, USA
	15.30-17.00	Coffee Break / POSTER Session		
	17.00-17.45	Marcus Müller	<i>Correlation between surface topography and slippage</i>	University of Göttingen, Germany
17.45-18.30	Xianren Zhang	<i>The essential role of microscopic structure of solid surfaces on nanobubble stability</i>	Beijing University of Chemical Technology, China	
22.00-23.00	Visit to the Forum of Augustus: multi-projection show in the occasion of the 2000th anniversary of the construction			
26/06/2014	Session 3. (Chair: X. Noblin)			
	9.00-9.45	Detlef Lohse	<i>Surface Nanobubbles: Their stability, their spatial distribution and what we learn from that on their formation process</i>	University of Twente, Netherlands
	9.45-10.30	Kenneth Suslick	<i>Inside a Collapsing Bubble: Conditions during Acoustic Cavitation</i>	University of Illinois, USA
	10.30-11.30	Coffee Break / POSTER Session		
	11.30-12.15	Constantin Coussios	<i>Ultrasound-induced inertial cavitation from nanoparticles for cancer therapy</i>	University of Oxford, UK
	12.15-13.00	Manish Arora	<i>Direct Observation of Surface Nanobubbles Dynamics</i>	Nanyang Technological University, Singapore
	13.00-14.00	Lunch		
	Session 4. (Chair S. Dietrich)			
	14.00-14.45	Abraham Marmor	<i>Interfacial phenomena: Old equations new insights</i>	Technion, Israel
	14.45-15.30	Giuseppe Carbone	<i>Predicting shape and contact angle of drops on super-hydrophobic surfaces: an effective medium approach</i>	Politecnico di Bari, Italy
	15.30-16.00	Coffee Break		
	16.00-16.45	Wei Qin Ren	<i>Modeling and simulation of moving contact lines and wetting transitions on patterned surfaces</i>	National University of Singapore, Singapore
	16.45-17.30	Simone Meloni	<i>Wetting of textured surfaces by advanced atomistic and continuum simulations</i>	EPFL, Switzerland
	17.30-19.00	Discussion: Challenges and perspectives in modeling the wetting of real surfaces		
20.00-23.00	Social Dinner ("Naumachia", via Celimontana 7)			
27/06/2014	Session 5. (Chair: L. Marino)			
	9.00-9.45	Tom Krupenkin	<i>Bubblor: a novel approach to energy harvesting based on reverse electrowetting</i>	University of Wisconsin-Madison, USA
	9.45-10.30	Xuehua Zhang	<i>Nanoscale Bubbles and Droplets at Solid-Water Interfaces</i>	The University of Melbourne, Australia
	10.30-11.30	Coffee Break / POSTER Session		
	11.30-12.15	Vincent Senez	<i>Super non-wetting surfaces for microfluidics applications</i>	Université de Lille, France
	12.15-13.00	Francesco De Angelis	<i>Ultra high sensitivity and precise solute positioning by tailoring surface wettability</i>	Istituto Italiano di Tecnologia, Italy
	13.00-14.00	Lunch		
	Final Lecture			
	14.00-14.45	Wilhelm Barthlott	<i>Biological Superhydrophobic Surfaces: from Lotus- to the Salvinia-Effect</i>	Bonn University, Germany
	14.45-15.00	Conclusions		