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## ESF Research Conferences

A Programme of the European Science Foundation

**Final  
Programme**

### ESF-FWF Conference in Partnership with LFUI

**Solid/Fluid Interfaces**

**Complex Fluid Interfaces and Nanofluidics**

Universitätszentrum Obergurgl (near Innsbruck) • Austria • 9-14 September 2006

**Chair:** Klaus Mecke • Universität Erlangen-Nürnberg, DE

**Vice-Chair:** Marjolein Dijkstra • Universiteit Utrecht, NL

[www.esf.org/conferences/pc06202](http://www.esf.org/conferences/pc06202)

<b>Saturday</b> <b>9</b> <b>September</b>	16.00 onwards	Registration at ESF-RC desk	
	20.00	Dinner	
	21.00	<b>Welcome Drink</b>	
<b>Sunday</b> <b>10</b> <b>September</b>	08.45-09.00	<b>Conference Opening</b>	
	<b>Session 1 • Solid/Liquid Interfaces</b>		
	Chair: Marjolein Dijkstra • Universiteit Utrecht, NL		
	09.00-09.45	<b>David Quéré</b> • Collège de France, Paris, FR	<i>Tba</i>
	09.45-10.30	<b>Ania Maciolek</b> • Polish Acad. of Sciences, Warsaw ,PL	<i>Finite-size effects and universality in superfluid wetting films</i>
	10.30-11.00	Coffee break	
	11.00-11.45	<b>Harald Reichert</b> • MPI für Metallforschung, Stuttgart, DE	<i>X-ray investigations of solid-liquid interfaces</i>
	<b>Short oral presentations</b>		
	11.45-12.10	<b>Matthias Schmidt</b> • University of Bristol, UK	<i>Wetting of colloidal hard platelets at a hard wall</i>
	12.10-12.35	<b>Douglas John Cleaver</b> • University of Edinburgh, UK	<i>Anchoring of liquid crystals on chemically patterned substrates</i>
	12.35-13.00	<b>Ludger Harnau</b> • University of Stuttgart, DE	<i>Phase behavior of a nematic liquid crystal in contact with chemically and geometrically structured substrates</i>
	13.00	Lunch	
	<b>Session 2 • Solid/Liquid Interfaces</b>		
	Chair: Benoit Loppinet • Heraklion, GR		
	15.30-17.00	Poster Session	
	17.00-17.30	Coffee break	
	17.30-18.15	<b>Manfred Stamm</b> • Technical University Dresden, DE	<i>Control of Wetting by Polymer Brushes</i>
	<b>Short oral presentations</b>		
	18.15-18.40	<b>Pascal Damman</b> • Université de Mons-Hainaut , BE	<i>Instability of fluid in thin films on patterned surfaces</i>
	18.40-19.05	<b>Gerd Schröder</b> • Australian National University, AU	<i>Frustration in periodic hyperbolic interfaces in self-assembled liquid-crystalline mesophases</i>
	19.05-19.30	<b>Nicolaas Besseling</b> • Wageningen University, NL	<i>Reversible supramolecular polymers at interfaces</i>
19.30	Dinner		
21.00	Poster session		

Monday  
11  
September

<b>Session 3 • Colloid Interfaces</b>		
Chair: Mireille Privat • Université de Bretagne, FR		
09.00-09.45	<b>Laurent Helden</b> • University of Stuttgart, DE	<i>Depletion forces in colloidal systems</i>
09.45-10.30	<b>Dirk Aarts</b> • Ecole Normale Supérieure, Paris, FR	<i>Thermal capillary waves in colloid-polymer mixtures</i>
10.30-11.00	Coffee break	
11.00-11.45	<b>Marjolein Dijkstra</b> • Utrecht University, NL	<i>Entropic wetting, template-induced freezing, and the effect of confinement in suspensions of colloidal hard spheres</i>
Short oral presentations		
11.45-12.10	<b>Volkert de Villeneuve</b> • University of Utrecht, NL	<i>Transport of a rigid sphere through a colloidal gas-liquid interface</i>
12.10-12.35	<b>Ana Barreira Fontecha</b> • Universität Mainz, DE	<i>Phase transition of charged colloidal suspensions in slit geometries</i>
13.00	Lunch	
<b>Session 4 • Spatially Complex Interfaces</b>		
Chair: Douglas John Cleaver • Sheffield Hallam University, UK		
15.30-16.15	<b>Paul Clegg</b> • University of Edinburgh, UK	<i>Colloids in Active Media</i>
16.15-17.00	<b>Mark Knackstedt</b> • Australian National University, AU	<i>Fluids and porous structure; the effects of topology, wetting and flow rate</i>
17.00-17.30	Coffee break	
17.30-18.15	<b>Laszlo Granasy</b> • Inst. for Solid State Physics, Budapest, HU	<i>Phase field modelling of polycrystalline patterns in two and three dimensions</i>
Short oral presentations		
18.15-18.40	<b>Richard Sear</b> • University of Surrey, UK	<i>Experiment and computer simulation studies of heterogeneous nucleation of protein crystals on porous media</i>
18.40-19.05	<b>Max Wolff</b> • ILL, Grenoble, FR	<i>Crystallization of micelles</i>
19.05-19.30	<b>Catalin Tanase</b> • University Utrecht, NL	<i>Nucleation of Tactoids in Hard Rod Systems: A Microscopic Approach</i>
19.30	Dinner	
21.00	Poster session	

<b>Tuesday</b> <b>12</b> <b>September</b>	<b>Session 5 • Dynamic Liquid Interfaces</b> Chair: Renate Fetzter • Saarbrücken, DE		
	09.00-09.45	<b>Greg Morfill</b> • MPI für extraterrestrische Physik, Garching, DE	<i>Liquid complex plasmas - investigations of fluids at the kinetic level</i>
	09.45-10.30	<b>Christian Gutt</b> • Hasylab/DESY, DE	<i>Coherent SX-rays: A tool for investigating soft matter surfaces</i>
	10.30-11.00	Coffee break	
	11.00-11.45	<b>Julia Yeomans</b> • Rudolf Peierls Centre for Theoretical Physics, HU	<i>Wetting and Spreading on Patterned Surfaces</i>
	<b>Short oral presentations</b>		
	11.45-12.10	<b>Thomas Bickel</b> • University of Bordeaux I, FR	<i>Brownian motion near a fluid membrane</i>
	12.10-12.35	<b>Daniel Svenske</b> • University of Ljubljana, CZ	<i>Phase winding in chiral liquid crystalline monolayers due to Lehmann effects</i>
	12.35-13.00	<b>Andrew Archer</b> • University of Bristol, UK	<i>Dynamics of the one-body density of inhomogeneous fluids</i>
	13.00	Lunch	
	14.00	Free afternoon (for walking, site-seeing, etc)	
	19.30	Dinner	
	21.00	Poster session	
<b>Wednesday</b> <b>13</b> <b>September</b>	<b>Session 6 • Nano-Microfluids</b> Chair: Benilde Saramago • Instituto Superior Tecnico, PT		
	09.00-09.45	<b>Liliane Léger</b> • Collège de France, Paris, FR	<i>Friction mechanisms at simple fluid-solid and polymer fluid-solid interfaces</i>
	09.45-10.30	<b>Stephen Quake</b> • Stanford University, CA, USA	<i>Biological large scale integration</i>
	10.30-11.00	Coffee break	
	11.00-11.45	<b>Karin Jacobs</b> • Univ. des Saarlandes, Saarbrücken, DE	<i>Slippage at the solid / liquid interface: new experiments and new puzzles</i>
	11.45-12.30	<b>Markus Rauscher</b> • MPI für Metallforschung, Stuttgart, DE	<i>Thin film dynamics influenced by thermal noise</i>
	<b>Short oral presentations</b>		
	12.10-12.55	<b>Glen McHale</b> • Nottingham Trent University, UK	<i>Thin film dynamics influenced by thermal noise</i>
	13.00	Lunch	
	<b>Session 7 • Nano-Microfluids</b> Chair: Vladimir Levchenko • Lomonosov Moscow State University, RU		
	15.30-16.15	<b>Elisabeth Charlaix</b> • UCB Lyon I, Villeurbanne, FR	<i>Low friction flows on patterned surfaces</i>
	16.15-17.00	<b>Lyderic Bocquet</b> • UCB Lyon I, Villeurbanne, FR	<i>Giant amplification of surface driven transport by hydrodynamic slip: electro-osmosis, diffusio-osmosis and beyond</i>
	17.00-17.30	Coffee break	
17.30-18.15	<b>Ignacio Pagonabarraga</b> • University of Barcelona, ES	<i>Mesosopic models for thin liquid films</i>	

Thursday 14 September	18.15-19.00	<b>Tapio Ala-Missila</b> • Helsinki University of Technology, FI	<i>Dynamics and Kinetic Roughening of Menisci and Contact Lines During Wetting</i>
	<b>Short oral presentations</b>		
	19.00-19.25	<b>Thierry Ondarcuhu</b> • CEMES-CNRS, Toulouse, FR	<i>Interaction of a contact line with nanometric defects</i>
	19.30	<b>Forward Look Plenary Discussion</b>	
	20.00	<b>Get-together &amp; Conference Dinner</b>	
<b>Breakfast &amp; Departure</b>			

**Abstracts, posters and short talks:**  
There will be no **short talks** other than those announced on the programme.  
All other abstracts are accepted as **posters**.