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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</b>		
	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>Max Wolff</b> • ILL, Grenoble, FR	<i>Crystallization of micelles</i>
	12.10-12.35	<b>Brian Laird</b> • University of Kansas, US	<i>Direct calculation of crystal melt interfacial thermodynamics and dynamics from MD</i>
	12.35-13.00	<b>Simon Titmuss</b> • University of Oxford, UK	<i>Interactions between surfaces modified by end-attached PEG</i>
	13.00	Lunch	
	<b>Session 2</b>		
	15.30-17.00	Poster Session	
	17.00-17.30	Coffee break	
	17.30-18.15	<b>Julia Yeomans</b> • Rudolf Peierls Centre for Theoretical Physics,	<i>Wetting and spreading on patterned surfaces</i>
	<b>Short oral presentations</b>		
	18.15-18.40	<b>Manfred Stamm</b> • Technical University of Dresden, DE	<i>Control of wetting by polymer brushes</i>
	18.40-19.05	<b>Pascal Damman</b> • Université de Mons-Hainaut , BE	<i>Instability of fluid in thin films on patterned surfaces</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

Session 3		
09.00-09.45	<b>Wilson Poon</b> • University of Edinburgh, UK	<i>Colloids in complex media: the role of (internal) interfaces</i>
09.45-10.30	<b>Marjolein Dijkstra</b> • Utrecht University, NL	<i>Entropic wetting, template-induced freezing, and the effect of confinement in</i>
10.30-11.00	Coffee break	
11.00-11.45	<b>Dirk Aarts</b> • Ecole Normale Supérieure, Paris, FR	<i>Thermal capillary waves in colloid-polymer mixtures</i>
Short oral presentations		
11.45-12.10	<b>Paul Clegg</b> • University of Edinburgh, UK	<i>Colloids in active media</i>
12.10-12.35	<b>Ana Barreira Fontecha</b> • Universität Mainz, DE	<i>Phase transition of charged colloidal suspensions in slit geometries</i>
12.35-13.00	<b>Laurent Helden</b> • University of Stuttgart, DE	<i>Depletion forces in colloidal systems</i>
13.00	Lunch	
Session 4		
15.30-16.15	<b>Laszlo Granasy</b> • Inst. for Solid State Physics, Budapest, HU	<i>Phase field modelling of polycrystalline patterns in two and three dimensions</i>
16.15-16.40	<b>Richard Sear</b> • University of Surrey, UK	<i>Experiment and computer simulation studies of heterogeneous nucleation of protein</i>
16.40-17.05	<b>Catalin Tanase</b> • University of Utrecht, NL	<i>Nucleation of tactoids in hard rods systems: a microscopic approach</i>
17.05-17.30	Coffee break	
17.30-18.15	<b>Mark Knackstedt</b> • Australian National University, AU	<i>Fluids and porous structure; the effects of topology, wetting and flow rate</i>
Short oral presentations		
18.15-18.40	<b>Daniel Svensek</b> • University of Ljubljana, SI	<i>Phase winding in chiral liquid crystalline monolayers due to Lehmann effects</i>
18.40-19.05	<b>Matthias Schmidt</b> • University of Bristol, UK	<i>Wetting of colloidal hard platelets at a hard wall</i>
19.05-19.30	<b>Ludger Harnau</b> • University of Stuttgart, DE	<i>Phase behavior of a nematic liquid crystal in contact with chemically and geometrically</i>
19.30	Dinner	
21.00	Poster session	

Tuesday 12 September	<b>Session 5</b>		
	09.00-09.45	<b>Sunil Sinha</b> • University of California, San Diego, US	<i>Studies of fluctuations on thin films of polymer melts using X-ray photon correlation</i>
	09.45-10.30	<b>Christopher Mundy</b> • Lawrence Livermore National Lab., US	<i>Structure, reactivity and rare events at the liquid-vapor interface of hydrogen bonded</i>
	10.30-11.00	Coffee break	
	11.00-11.45	<b>Greg Morfill</b> • MPI für extraterrestrische Physik, Garching, DE	<i>Liquid complex plasmas - investigations of fluids at the kinetic level</i>
	<b>Short oral presentations</b>		
	11.45-12.10	<b>Pulak Dutta</b> • Northwestern University, IL, US	<i>Temperature dependence of surface and interface layering in a nonmetallic liquid</i>
	12.10-12.35	<b>Thomas Bickel</b> • University of Bordeaux I, FR	<i>Brownian motion near a fluid membrane</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	<b>Free afternoon</b> (for walking, site-seeing, etc)	
	19.30	Dinner	
21.00	<b>Poster session</b>		
19.30	Dinner		
Wednesday 13 September	<b>Session 6</b>		
	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>
	<b>Short oral presentations</b>		
	11.45-12.10	<b>Markus Rauscher</b> • MPI für Metallforschung, Stuttgart, DE	<i>Thin film dynamics influenced by thermal noise</i>
	12.10-12.35	<b>Lyderic Bocquet</b> • UCB Lyon I, Villeurbanne, FR	<i>Giant amplification of surface driven transport by hydrodynamic slip: electro-osmosis,</i>
	12.35-13.00	<b>Ignacio Pagonabarraga</b> • Univ. de Barcelona, ES	<i>Mesosopic models for thin liquid films</i>
	13.00	Lunch	
	<b>Session 7</b>		
	15.30-16.15	<b>Elisabeth Charlaix</b> • UCB Lyon I, Villeurbanne, FR	<i>Low friction flows on patterned surfaces</i>
	16.15-16.40	<b>Laurence Noirez</b> • CEA-CNRS, Saclay, FR	<i>The solid like nature of liquid crystalline and ordinary polymer melts</i>
	16.40-17.05	<b>Roger Horn</b> • Ian Wark Research Institute, Adelaide, AU	<i>Investigating Slip boundary conditions with squeeze film measurements in the SFA and</i>
	17.05-17.30	Coffee break	
17.30-18.15	<b>Tapio Ala-Nissila</b> • Helsinki University of Technology, FIN	<i>Dynamics and Kinetic Roughening of Menisci and Contact Lines During Wetting</i>	

<b>Short oral presentations</b>			
<b>Thursday 14 September</b>	18.15-18.40	<b>Glen McHale</b> • Nottingham Trent University, UK	<i>Wetting of hydrophobic beads and sand</i>
	18.40-19.05	<b>Thierry Ondarcuhu</b> • CEMES-CNRS, Toulouse, FR	<i>Interaction of a contact line with nanometric defects</i>
	19.05-19.30	<b>Christopher Care</b> • Sheffield Hallam University, UK	<i>Mesoscopic models of microfluidic flow focusing</i>
	19.30	<b>Forward Look Plenary Discussion</b>	
	20.00	<b>Get-together &amp; Conference Dinner</b>	
<b>Breakfast &amp; Departure</b>			