

Programme

Sunday 16th September

15.00-19.00 Registration [Auditório da Reitoria (next to the Chemistry Department), Universidade de Coimbra]

19.00-22.00 Welcome reception (Faculdade de Psicologia, Rua do Colégio Novo)

Monday 17th September

8.30 Opening session

Self-Assembly in Mixed Systems

Chair Ilias Iliopoulos

Invited Lecture

9.00 Christian Ligoure (Montpellier, France) *Smectic phase of fluid membranes decorated by amphiphilic copolymers*

Oral Presentations

9.30 I. Lynch (Lund, Sweden) *Determination of the relative importance of charged groups versus hydrophobic groups in the surfactant-induced swelling of chemical gels*

9.45 K. Kurumada (Norwich, England) *Viscosity studies of Pluronic F127 and F66 in aqueous solution with and without sodium dodecylsulfate*

10.00 M. Dubois (Gif sur Yvette, France) *Unbinding of charged bilayers: equation of state and characterization of the Oyster state in the absence of salt*

10.15 R. Beck (Bayreuth, Germany) *A new L₃-phase with a wide existence region in systems of calcium salts of ionic surfactants and cosurfactants*

10.30 Coffee

Invited Lecture

11.00 Dimitris Vlassopoulos (Haraklion, Greece) *From polymers to colloids: exploring the mesoscopic regime with star polymers and micelles*

Oral Presentations

11.30 A.Chittofrati (Milan, Italy) *Perfluoropolyether carboxylic salts in micellar solutions and o/w microemulsions*

11.45 J. Eastoe (Bristol, UK) *What is so special about Aerosol-OT?*

12.00 H. Rivas (Caracas, Venezuela) *Rheological behaviour of concentrated bitumen in water emulsions*

12.15 D. Zanette (Florianopolis, Brasil) *Saturation conditions of bovine serum albumin (BSA) in association with sodium dodecyl sulfate (SDS)*

12.30 *Introduction to Poster Session* Thomas Zemb

12.35 - 14.30 Lunch and Posters

Surface Modification

Chair Helmut Moehwald

Invited Lecture

14.30 Gero Decher (Strasbourg, France) *Polyelectrolyte Multilayers Between Materials Science and Life Science*

Oral Presentations

- 15.00** A. Shioi (Yonezawa, Japan) *Oscillation of interfacial tension and spontaneous interfacial flow due to Marangoni instability at water/oil interface containing surfactant*
- 15.15** M. Schönhoff (Potsdam/Golm, Germany) *Polyelectrolyte adsorption studies by spin relaxation of the solvent: hydration of monolayers and self-assembled multilayers*
- 15.30** W. Norde (Wageningen, The Netherlands) *Structure of proteins: from solution to the surface and back*
- 15.45** A.L. Simões Gamboa (Lisbon, Portugal) *Creating new surfaces at the air-water interface: binary films of a semifluorinated alkane and a polymer*
- 16.00** Coffee

Invited Lecture

- 16.30** Regine Klitzing (Berlin, Germany) *Aqueous foam films containing amphiphiles and polyelectrolytes*

Oral Presentations

- 17.00** K. Esumi (Tokio, Japan) *Adsolubilization by mixtures of ionic and nonionic surfactants*
- 17.15** T. Cosgrove (Bristol, UK) *Diffusion and NMR relaxation of polydimethylsiloxane mixtures with silicate microparticles*
- 17.30** I. Iliopoulos (Paris, France) *Association polymers used as thickeners in both aqueous and organic media*
- 17.45** W. Richtering (Kiel, Germany) *Evolution of vesicle shape during and after cessation of shear as probed by time resolved small angle scattering*

18.30-20.00 Port wine reception (Jardim Botânico)

Tuesday 18th September

Biological and Biomimetic Systems

Chair Kenneth Dawson

Invited Lecture (Surface Modification)

9.00 George Attard (Southampton, UK) *Nanostructured materials from liquid crystalline phases: synthesis and applications*

Oral Presentations

9.30 M. Ardhammar (Göteborg, Sweden) *Ligand substituents of ruthenium dipyridophenazine complexes sensitively determine orientation in liposome membrane*

9.45 K. A. Riske (São Paulo, Brasil) *Structure and phase transitions of DMPG vesicles studied by SAXS-WAXS*

10.00 J. Borné (Lund, Sweden) *Vesicle formation, general phase behaviour and effect of lipase on oleic acid based acyl glycerols*

10.15 M.E. Hayes (Dublin, Ireland) *The formation and structure of the DNA, divalent cation, zwitterionic lipid complex*

10.30 Coffee

Invited Lecture

11.00 Joachim Rädler (Mainz, Germany) *Single colloid microelectrophoresis - a laser trap based apparatus to measure enzyme kinetics*

Oral Presentations

11.30 R. Dias (Coimbra, Portugal) *Association of DNA with catanionic vesicles*

11.45 D. Lleres (Illkirch, France) *DNA condensation by oxidizable cationic detergents: interactions with lipid vesicles*

12.00 M. Hato (Ibaraki, Japan) *Novel sugar-based surfactants with Krafft temperatures well below 0°C*

12.15 A. Hochkoepler (Bologna, Italy) *Microbiology in water-in-oil microemulsions*

12.30 *Introduction to Poster Session* Otto Glatter

12.35-14.30 Lunch and Posters

Theory and Modelling

Chair Jan Eriksson

Invited Lecture

14.30 Barry Ninham (Canberra, Australia) *Flaws in the fabric: Why Colloid Science failed to contribute to the Biological Sciences and what to do about it*

Oral Presentations

15.00 J. Hauck (Jülich, Germany) *Self-assembly of homogeneous systems*

15.15 A. Stenstam (Lund, Sweden) *Globular proteins and simple surfactants - their interaction in theory and practice*

15.30 A. Moncho-Jordá (Granada, Spain) *Structure of colloidal particles at the air-water interface*

15.45 L.S. Romsted (Rutgers, USA) *Snared by trapping: chemical explorations of interfacial compositions of surfactant assemblies*

16.00 Coffee

Invited Lecture

16.30 Bo Jönsson (Lund, Sweden) *Modulation of colloidal forces with polyampholytes*

Oral Presentations

17.00 L. Aonghus (Dublin, Ireland) *Dynamical heterogeneities in super-cooled liquids*

17.15 S.N. Petris (Melbourne, Australia) *Phase separation in de-ionised colloidal systems*

17.30 M. Jonsson (Lund, Sweden) *Complexation between polyelectrolyte and oppositely charged macroions. A Monte Carlo study*

17.45 M. Monduzzi (Cagliari, Italy) *A novel NMR approach to model percolation*

18.00 ECIS General Assembly

21.30 Organ recital (Capela de S. Miguel, Universidade de Coimbra)

Wednesday 19th September

New Techniques and Developments *Chair Olle Söderman*

Invited Lecture

9.00 Stefan Egelhaaf (Edinburgh, UK) *Phase Transitions in Surfactant Systems*

Oral Presentations

9.30 F. Scheffold (Fribourg, Switzerland) *New trends in optical microrheology of complex fluids and gels*

9.45 E. Bertrand (Pessac, France) *Rheological phase diagram of a suspension of anisotropic particles*

10.00 I.B. Ivanov (Sofia, Bulgaria) *New approaches and techniques for studying drop and bubble coalescence*

10.15 G.J.T. Tiddy (Manchester, England) *Surfactant-specific electrode measurements of mesophases - electrode and X-ray measurements of hexadecyltrimethylammonium*

bromide/hexadecanol gel (L_{β}) dispersions show large, non-equilibrium dissolution effects

10.30 Coffee

Invited Lecture

11.00 Fredrik Tiberg (Stockholm, Sweden) *Structure formation of lipids and surfactants at the solid-liquid interface: Influence on normal forces and friction*

Oral Presentations

11.30 W.H. Briscoe (Oxford, UK) *Measuring long range electrostatic repulsion in a nonpolar liquid*

11.45 S. Deguchi (Yokosuka, Japan) *Microscopic observation of physicochemical phenomena in near- and supercritical water*

12.00 G. Duplâtre (Strasbourg, France) *Characterization of micelles through positron annihilation lifetime spectroscopy*

12.15 O. Söderman (Lund, Sweden) *NMR self-diffusion of porous systems. Changes of cellulose fiber wall structures during drying*

12.30 *Introduction to Poster Session* Jarl Rosenholm

12.35 - 14.30 Lunch and Posters

14.30 Excursion

Thursday 20th September

Food and Pharmaceuticals

Chair Piero Baglioni

Invited Lecture

9.00 V. Cabuil (Paris, France) *Hybrid colloids*

Oral Presentations

9.30 L. de Campo (Graz, Austria) *Structural characterization of multicomponent microemulsion systems designed for food application*

9.45 A. Xenakis (Athens, Greece) *Lecithin organogels as model carriers of pharmaceuticals*

10.00 H. Mohameed (Irbid, Jordan) *Experimental and modelling studies of the flow properties of labneh as affected by the storage time*

10.15 S. Pautot (Cambridge, USA) *Engineering high encapsulation yield unilamellar vesicles with lipids, surfactants and diblock-copolymers*

10.30 Coffee

Invited Lecture

11.00 Nissin Garti (Jerusalem, Israel) *Interfacial reactions in microemulsions - Structure-reactivity relationship. Maillard reactions for food applications*

Oral Presentations

11.30 A. Pinazo (Barcelona, Spain) *Glycerolipid arginine-based surfactants: synthesis and surface active properties*

11.45 Y. Dziechciarek (Wageningen, The Netherlands) *Preparation and properties of starch-based colloidal microgels*

12.00 M.A. Cabrerizo-Vílchez (Granada, Spain) *Development of a pressure-controlled pendant drop penetration surface balance. Study of the enzymatic hydrolysis of insoluble phospholipid monolayers*

12.15 G. C. Chernik (St. Petersburg, Russia) *Surfactant-water phase behaviour at subzero temperatures*

12.30 *Introduction to Poster Session* Björn Lindman

12.35 - 14.30 Lunch and Posters

Dynamics at Interfaces

Chair Terence Cosgrove

Invited Lecture

14.30 Kenneth Dawson (Dublin, Ireland) *The interplay between crystallization and gellation in colloidal particles with short ranged attractive interactions; applications to protein crystallization*

Oral Presentations

15.00 C. Marquez (Orsay, France) *Confining polyelectrolytes in thin liquid films: Relations between the chain properties and the stratification effects*

15.15 K. Gohr (Mainz, Germany) *Dynamics of copolymer micelles in a homopolymer melt*

15.30 P. Lo Nostro (Firenze, Italy) *Polyrotaxanes from β -cyclodextrin: formation and kinetic study*

15.45 Coffee

Invited Lecture

16.15 Martin Cohen Stuart (Wageningen, The Netherlands) *Polyelectrolyte complexes at interfaces: stability of multilayers and glass/liquid transitions*

Oral Presentations

16.45 M. Gradzielski (Bayreuth, Germany) *Structural Investigations of the Dynamics of Transformations in Amphiphilic Systems*

17.00 C. Mabilie (Pessac, France) *Fragmentation of emulsions in simple shear flow*

17.15 A. A. Saidov (Tashkent, Uzbekistan) *Effect of alcohol on the dynamic properties of micellar systems*

17.30 T. Narayanan (Grenoble, France) *Early stage nucleation and growth kinetics of colloidal silica*

20.00 Conference dinner (Palácio de S. Marcos)

Friday 21st September

Mesoscopic and Mesoporous Systems

Chair Conxita Solans

Invited Lecture

9.00 Bradley Chmelka (California, USA) *Interfacial Compositions and Structures in Inorganic-Surfactant Mesophases*

Oral Presentations

9.30 F. Testard (Gif sur Yvette, France) *How does mesoporous ZrO₂ nucleate in the first second: a SAXS movie*

9.45 M.C. Gonçalves (Lisbon, Portugal) *Nanostructured mesoporous silica films*

10.00 J. Gustafsson (Åbo, Finland) *Gravity and shear-induced network structures in TiO₂ dispersions*

10.15 Coffee

Invited Lecture

10.45 Krister Holmberg (Göteborg, Sweden) *Kinetics of nanoparticle formation in microemulsion*

Oral Presentations

11.15 R. Hempelmann (Saarbrücken, Germany) *Preparation of mesoscale ordered structures by means of immobilized highly charged polymer colloids*

11.30 F.J. de las Nieves (Almeria, Spain) *Structure formation from mesoscopic soft particles*

11.45 J. Esquena (Barcelona, Spain) *Use of w/o highly concentrated emulsions to prepare organic aerogels*

12.00 P. Levitz (Palaiseau, France) *Probing dynamics of embedded fluid in mesoporous systems by NMR dispersions*

Rhodia Colloid Prize Lecture

12.15 Kåre Larsson (Lund, Sweden) *Cubossomes in vitro and in vivo*

13.00 Lunch