

**Monday, 22 September**

PONTEVECCHIO ROOM

**SESSION 1: *Interactions in Colloids and at Interfaces***

**Chairperson: B. Lindman**

- 09.00-09.40 PL1: G. MARET "*Magnetic Colloids at the air/water interface*"  
09.40-10.10 KN1: O. SODERMAN "*Phase Diagrams, Microstructures and Interactions in Alkyl Glucosides*"  
10.10-10.30 OR1/1: M. OLSSON "*Destabilisation of Colloidal Dispersions by Polymers through the Mechanism of Capillary-Induced Phase Separation (CIPS)*"  
10.30-10.50 OR1/2: M. SKEPÖ "*Structure and Phase Stability of Polyelectrolyte-Macroion Solutions*"  
10.50-11.10 OR1/3: R. VON KLITZING "*Interactions between charged colloids and surfactants in free-standing liquid films*"  
11.10-11.30 Coffee Break

**Chairperson: M.P. Krafft**

- 11.30-11.50 OR1/4: R. LUND "*Chain Exchange Kinetics and Structure of Polymeric Micelles*"  
11.50-12.10 OR1/5: W.H. BRISCOE "*Surfactant under Shear in Aqueous Media: Towards Understanding Biolubrication*"  
12.10-12.30 OR1/6: A. MOREL "*Electrostatic Effects in Equilibrium Polyelectrolyte Block Copolymer Micelles*"  
12.30-12.50 OR1/7: N.B. SIMEONOVA "*Real-space dynamics and aging in concentrated colloidal suspensions*"  
12.50-14.30 Lunch & POSTERS (Sessions 1, 2, 3, 4, and 5)

**Chairperson: P. Schurtenberger**

- 14.30-15.10 PL2 : M. MICHEL "*Nanoscience-Bridging Food Material Science with Nutrition and Consumer Science*"  
15.10-15.30 OR1/8: J.G. KAHN "*Outstanding bulk elasticity of monodispersed solid-stabilized emulsions*"  
15.30-15.50 OR1/9: P. SANDKÜHLER "*Influence of Cluster Interactions on Aggregation and Gelation Kinetics in Concentrated Colloidal Dispersions*"  
15.50-16.10 OR1/10: J. WAGNER "*Structure and Dynamics of Complex Liquids with Magnetic Dipole-Dipole Interaction by means of SAXS and XPCS*"  
16.10-16.40 Coffee Break

**Chairperson: Th. Zemb**

- 16.40-17.00 OR1/11: M. ZACKRISSON "*Attractive Interactions in Droplet Microemulsions*"  
17.00-17.20 OR1/12: S.U. EGELHAAF "*Two Glassy States in Hard Spheres with Short-range Attraction*"  
17.20-17.40 OR1/13: S.M. OVERSTEEGEN "*Phase Behaviours of Mixtures of Colloidal Spheres with Rods or Plates*"  
17.40-18.00 OR1/14: M. SCHÖNHOF "*Water Swelling of Phospholipid-Polyelectrolyte Interfaces: Local Interactions and Layer Distances*"  
18.00-18.20 OR1/15: T. BELLINI "*The Anomalous Electric Birefringence of Polyelectrolytes: New Lights on an Old Mystery*"  
18.20-20.00 POSTERS (Sessions 1, 2, 3, 4, and 5)

**Monday, 22 September**

PITTI/FRANCIABIGIO ROOM

**SESSION 2: *Industrial Applications: Colloid Science in Action***

**Chairperson: M. Almgren**

- 09.40-10.10 KN2: J. RIEGER *"Particles and Polyelectrolytes: Control of Nanoparticle Formation and Crystallization in Water"*
- 10.10-10.30 OR2/1: M. MORBIDELLI *"Aggregation and Gelation in Colloidal Dispersions: From Modeling to Coagulator Design"*
- 10.30-10.50 OR2/2: S. KIOKIAS *"Droplet Size Measurements and Fat Crystallisation in Heated Protein-stabilised Oil-in-Water Emulsions"*
- 10.50-11.10 OR2/3: S. CARMINATI *"Heavy Oil Emulsions"*

11.10-11.30 Coffee Break

**Chairperson: K. Kostarelos**

- 11.30-11.50 OR 2/4: A.R. PITT *"Use of Alternative Oligomeric Nonionic Surfactants to Slow Adsorption Dynamics in Aqueous Solution and Improve Control of Post Coating Flow"*
- 11.50-12.10 OR2/5: Y. CHEVALIER *"Control of the Crystallization of Paraffins in Diesel Fuel"*
- 12.10-12.30 OR2/6: Y. LALLOT *"New colloidal gels for nuclear decontamination"*
- 12.30-12.50 OR2/7: D. MEGIAS-ALGUACIL *"Droplet Deformation under simple Shear Flow: Influence of Surfactants present at the Interface"*

12.50-14.30 Lunch & POSTERS (Sessions 1, 2, 3, 4, and 5)

**Chairperson: M. Corti**

- 15.10-15.30 OR2/8: F. TESTARD *"Transforming w/o micelles in structured networks of H-bonds using "modifiers": a SAXS study"*
- 15.30-15.50 OR2/9: M.S. MOHAMMADI *"Phase behaviour and colloidal stability of surfactant-cationic lipid mixtures used in commercial fabric softeners"*
- 15.50-16.10 OR2/10: M. GOODALL *"Perfume Deposition from Rinse-off Consumer Products"*

16.10-16.40 Coffee Break

**Chairperson: F. Tiberg**

- 16.40-17.00 OR2/11: R. ZIMEHL *"Coatings by Colloidal Particle Deposition: I. Preparation and Stabilization of Inorganic Colloidal Particles"*
- 17.00-17.20 OR2/12: F.J. DE LAS NIEVES *"Colloidal stability of microgel particles"*
- 17.20-17.40 OR2/13: H. SAVEYN *"The influence of cationicity and molecular weight of polyelectrolyte sludge conditioners on activated sludge dewatering performance"*
- 17.40-18.00 OR2/14: T. TEXTOR *"Coating of textile materials with inorganic-organic hybrid polymers"*
- 18.00-18.20 OR2/15: C. RENGER *"Highly Filled "Nano-Zirconia" Screen Printing Pastes using Water/Alcohol Mixtures as Liquid Phase"*

18.20-20.00 POSTERS (Sessions 1, 2, 3, 4, and 5)

**Tuesday, 23 September**

PONTEVECCHIO ROOM

**SESSION 4: *New Methods of Investigation***

**Chairperson: M. Schönhoff**

- 09.00-09.40 PL3: W. HENNINK “*Colloidal Non-Viral Gene Delivery Systems*”  
09.40-10.10 KN4a: S.H. CHEN “*Inelastic X-Ray Scattering Study of Phonons in Liquid Crystalline DNA*”  
10.10-10.30 OR4/1: R. PIAZZA “*Thermophoresis in Colloidal Suspensions and Macromolecular Solutions*”  
10.30-10.50 OR4/2: L. KARLSON “*Inhibition of hydrophobic associations by cyclodextrins as a tool to study cross-linking mechanisms of hydrophobically modified polymers*”  
10.50-11.10 OR4/3: S. BAYLE “*Study of heterogeneous suspensions: a new quantitative approach by coupling laser granulometry and UV-spectrophotometry*”  
11.10-11.30 Coffee Break

**Chairperson: G. Tiddy**

- 11.30-11.50 OR4/4: E. BERTRAND “*A New Colloidal-based Method to Study Molecular Recognition*”  
11.50-12.10 OR4/5: M. POTENZA “*Near Field Scattering*”  
12.10-12.30 OR4/6: H. MOTSCHMANN “*Does a Sublayer Contribute to the Surface Tension?*”  
12.30-12.50 OR4/7: P. KOELSCH “*Direct Measurement of the Prevailing Ion Distribution at Charged Interfaces*”  
  
12.50-14.30 Lunch & POSTERS (Sessions 1, 2, 3, 4, and 5)

**Chairperson: H. Lekkerkerker**

- 14.30-15.10 PL4: O. TERASAKI “*EM Study on Structural Change of Silica Mesoporous Crystal with Synthesis Period*”  
15.10-15.40 KN4b: V. RAZUMAS “*Structural and Functional Features of the Bicontinuous Cubic Phases of Lipids with Entrapped Biomolecules: Spectroscopic and Electrochemical Approach*”  
15.40-16.00 OR4/8: D. BROGIOLI “*Real-time wavelet-transform spectrum analyzer. Applications to Dynamic Light Scattering*”  
16.00-16.20 OR4/9: S. DEGUCHI “*Supercritical Water as a Medium for Colloid Science*”  
16.20-16.40 OR4/10: A. SALONEN “*Kinetics of Micellar Growth: Time-resolved SANS Study of the Lecithin-Bile Salt System*”  
16.40-17.00 Coffee Break

**Chairperson: R. Piazza**

- 17.00-17.20 OR4/11: B.H. ERNÉ “*Size Fractionation in Phase-Separated Ferrofluid Studied by ATR-IR*”  
17.20-17.40 OR4/12: M. ALMGREN “*Further studies of perforated bilayers in aqueous systems of lipids and surfactants*”  
17.40-18.00 OR4/13: F. BOUÉ “*Foams as Viewed by Small Angle Neutron Scattering*”  
18.00-18.20 OR4/14: N. LEBEDEVA “*The investigation of micellized radical pairs by Stimulated Nuclear Polarization (SNP)*”  
  
18.20-19.30 POSTERS (Sessions 1, 2, 3, 4, and 5)  
  
19.30-20.30 XVII ECIS General Assembly

**Tuesday, 23 September**

PITTI/FRANCIABIGIO ROOM  
**SESSION 3: Colloids for Drug Delivery**

**Chairperson: M. Miguel**

- 09.40-10.10 KN3a: K. KOSTARELOS “*Engineering Advanced Lipid-Based Delivery Vectors by Application of Colloid and Interface Science Principles: Transitions from Gene to Cancer Therapeutics*”
- 10.10-10.30 OR3/1: P. HANSSON “*Phase Transitions in Polyelectrolyte Gels*”
- 10.30-10.50 OR3/2: G. GONZÁLEZ-GAITANO “*Interactions of Igepal<sup>®</sup> surfactants with  $\beta$ -Cyclodextrin and a soluble  $\beta$ -Cyclodextrin polymer. Light scattering, size exclusion chromatography and NMR studies*”
- 10.50-11.10 OR3/3: R. MEYRUEIX “*Polyaminoacid-based nanoparticles for protein delivery*”
- 11.10-11.30 Coffee Break

**Chairperson: B. W. Ninham**

- 11.30-11.50 OR3/4: A. MAZZAGLIA “*Novel Heterotopic Colloids of Porphyrins Entangled in Amphiphilic Cyclodextrins: Spectroscopy and Intracellular Delivery*”
- 11.50-12.10 OR3/5: E. SCHOLLMAYER “*Applications of Textiles with Permanently Fixed Cyclodextrins*”
- 12.10-12.30 OR3/6: F. TIBERG “*Biopharmaceutical Aspects of Dispersed Lyotropic Liquid Crystalline Drug Delivery Vehicles*”
- 12.30-12.50 OR3/7: C. BOYER “*The Vesosome: a new extended release drug delivery system*”
- 12.50-14.30 Lunch & POSTERS (Sessions 1, 2, 3, 4, and 5)

**Chairperson: K. Larsson**

- 15.10-15.40 KN3b: L. VOVELLE “*New Dry Emulsions and their Applications*”
- 15.40-16.00 OR3/8: N. MERCLIN “*Ala and Ala-ester Penetration through Porcine Ear Skin – Iontophoresis and Passive Diffusion*”
- 16.00-16.20 OR3/9: J. BORNÉ “*Interactions between polar and amphiphilic polymers and liquid crystalline phases*”
- 16.20-16.40 OR3/10: G. TARDAJOS “*Pulsed Gradient Spin Echo NMR and Dynamic Light Scattering studies of a Dimeric Surfactant with  $\beta$  and  $\gamma$ -Cyclodextrins*”
- 16.40-17.00 Coffee Break

**Chairperson: M.A. Cohen Stuart**

- 17.00-17.20 OR3/11: P. VAN DER MEEREN “*Gravitational stabilisation of aqueous suspensions by microfluidization*”
- 17.20-17.40 OR3/12: Z.I. KOLAR “*Interfacial Chemistry in Aqueous Tin-(bis)Phosphonate/Hydroxyapatite Systems*”
- 17.40-18.00 OR3/13: L. PADUANO “*Mixed Micelle Aggregates Containing Bio-active Peptides and Chelating Agents for Metal Complexes*”
- 18.00-18.20 OR3/14: M.C. ARFVIDSSON “*On the mechanism of drug release from thermosensitive liposomes*”
- 18.20-19.30 POSTERS (Sessions 1, 2, 3, 4, and 5)

**Wednesday, 24 September**

PONTEVECCHIO ROOM  
**SESSION 6: *Interfacial Chemistry***

**Chairperson: E. Leontidis**

- 09.00-09.40 PL5: S. HYDE "*Formation of Carbonate-Silica Biomorphs*"  
09.40-10.10 KN6a: W. KUNZ "*Interactions between Ions, Colloids and Solvents*"  
10.10-10.30 OR6/1: A. KAMYSHNY "*Hydrophobically Modified Proteins at Interfaces*"  
10.30-10.50 OR6/2: K. PROCHÁZKA "*Amphiphilic block copolymer micelles in polar and aqueous media. Experimental study and computer simulations*"  
10.50-11.10 OR6/3: M. CARDENAS "*DNA Compaction on Different Surfaces by Cationic Surfactant*"

11.10-11.30 Coffee Break

**Chairperson: H. Möhwald**

- 11.30-11.50 OR6/4: R.P.A. DULLENS "*Wall induced mobility-increase upon densification in a colloidal model system*"  
11.50-12.10 OR6/5: C. DÉJUGNAT "*Nano-Engineered Microcapsules as Stimuli-Sensors and Microreactors*"  
12.10-12.30 OR6/6: D. VAN DER BEEK "*Liquid crystalline phase transitions in suspensions of charged colloidal platelets*"  
12.30-12.50 OR6/7: R. MILLER "*Thermodynamics, kinetics and dilational rheology of interfacial layers*"  
12.50-14.30 Lunch & POSTERS (Sessions 6, 7, and 8)

**Chairperson: T. Nylander**

- 14.30-15.10 PL6: J.M. DI MEGLIO "*Colloid Dynamics in Confined Media*"  
15.10-15.40 KN6b: J. EASTOE "*Photo-Surfactants*"  
15.40-16.00 OR6/8: J.K. BEATTIE "*Stable Surfactant-Free Oil-in-Water emulsions*"  
16.00-16.20 OR6/9: T. KALLIO "*Nanobubbles and Acid-Base Interactions*"  
16.20-16.40 OR6/10: C.M. NOEL "*Self-alignment of iron particles in a liquid crystal induced by the interactions at interface*"  
16.40-17.00 Coffee Break

**Chairperson: W. Kunz**

- 17.00-17.20 OR6/11: P. IZQUIERDO "*Effect of Surfactant HLB on Nano-emulsion Formation*"  
17.20-17.40 OR6/12: M.P. KRAFFT "*Monodisperse Surface Micelles of Semifluorinated Alkanes in Langmuir Monolayers*"  
17.40-18.00 OR6/13: A. AKINCHINA "*Modelling of Polyampholyte Diblock Brushes*"  
18.00-18.20 OR6/14: B. NOSKOV "*Dilational Viscoelasticity of Polymer Films at the Liquid-Gas Interface*"  
18.20-20.00 POSTERS (Sessions 6, 7, and 8)  
20.30 SOCIAL DINNER (Roof Garden at the Grand Hotel Baglioni)

**Wednesday, 24 September**

PITTI/FRANCIABIGLIO ROOM  
**SESSION 5: *Inorganic Colloids***

**Chairperson: O. Glatter**

- 09.40-10.10 KN5a: M.P. PILENI “*What is the Colloidal Template Role in Controlling the Size and Shape of Nanocrystals?*”
- 10.10-10.30 OR5/1: J. OBERDISSE “*Fragmented structure of adsorbed layer of non ionic surfactant on colloidal silica*”
- 10.30-10.50 OR5/2: S. EIDEN “*Synthesis of magnetic colloidal particles*”
- 10.50-11.10 OR5/3: K. FLODSTRÖM “*On the mechanism of formation of SBA-15 mesoporous silica*”
- 11.10-11.30 Coffee Break

**Chairperson: O. Soderman**

- 11.30-11.50 OR5/4: W.K. KEGEL “*Observation of Equilibrium, Nanometer Sized Clusters of Silver Iodide in Aqueous Solutions*”
- 11.50-12.10 OR5/5: O. PARENAGO “*Surface-Capped Molybdenum Sulphide Nanoparticles: Synthesis, Properties and Application*”
- 12.10-12.30 OR5/6: O. SPALLA “*Nanoporous Interfacial Layer Induced by Water Degradation of Glass Monoliths*”
- 12.30-12.50 OR5/7: J.E.G.J. WIJNHOFEN “*Preparation of Gibbsite Particles: Control of Size and Coating with Silica*”
- 12.50-14.30 Lunch & POSTERS (Sessions 6, 7, and 8)

**Chairperson: S. Hyde**

- 15.10-15.40 KN5b: E. LEONTIDIS “*Specific Ion Effects in the Formation of Inorganic Colloids: Insights from Model Systems*”
- 15.40-16.00 OR5/8: R. HEMPELMANN “*Brownian relaxation of magnetic colloids*”
- 16.00-16.20 OR5/9: T. OKUBO “*Giant Colloidal Crystals*”
- 16.20-16.40 OR5/10: Z. ADAMCZYK “*Colloid Particle Deposition at Heterogeneous Surfaces*”
- 16.40-17.00 Coffee Break

**Chairperson: M.P. Pileni**

- 17.00-17.20 OR5/11: M. MEYER “*Nanosized Nickel Hydroxide Dispersion*”
- 17.20-17.40 OR5/12: Z. HORVOLGYI “*Film balance and laser-optical investigations of silica nanoparticulate films formed at water-air interface*”
- 17.40-18.00 OR5/13: L. PEI “*Closed Pore Formation in Nanoporous Structure of Silica Templated from Block Copolymer Micelles*”
- 18.00-18.20 OR5/14: C. FAURE “*Spontaneous synthesis of gold nanoparticles into onion-type multilamellar vesicles, coupling between particles and lamellar phase evidenced by cryo-TEM*”
- 18.20-20.00 POSTERS (Sessions 6, 7, and 8)
- 20.30 SOCIAL DINNER (Roof Garden at the Grand Hotel Baglioni)

## Thursday, 25 September

### PONTEVECCHIO ROOM

#### SESSION 7: *Biomaterials & Biocolloids*

**Chairperson: V. Razumas**

- 09.00-09.40 PL7: P. FRATZL “*Hierarchical Structure and Mechanical Properties of Natural Mineralized Tissues*”
- 09.40-10.10 KN7: O. MOURITSEN “*Interfacial Enzymes in Targeted Liposome-Based Drug Delivery*”
- 10.10-10.30 OR7/1: J.J. VALLE-DELGADO “*Interactions between BSA Layers Adsorbed on Different Substrates Measured with an Atomic Force Microscope*”
- 10.30-10.50 OR7/2: L. CANTÙ “*Continuous phase transition in Ganglioside GM3 dispersed bilayers*”
- 10.50-11.10 OR7/3: J.J.R. STÅLGREN “*Novel Solid Surfaces for Planar Supported Lipid Bilayers*”
- 11.10-11.30 Coffee Break

**Chairperson: J. Eastoe**

- 11.30-11.50 OR7/4: A. STRADNER “*Structure and Interactions in Dilute and Concentrated Protein Solutions*”
- 11.50-12.10 OR7/5: C. LEAL “*Thermodynamics of DNA-Lipid Hydration*”
- 12.10-12.30 OR7/6: J. LENG “*Myelin Formation During the Dissolution of Lipid Lamellar Phase*”
- 12.30-12.50 OR7/7: M. CARPINETI “*Metastability and supersaturation in lysozyme crystallization*”
- 12.50-14.30 Lunch & POSTERS (Sessions 6, 7, and 8)
- 15.00-19.00 CHIANTI TOUR WITH WINE TASTING

## Friday, 26 September

### PONTEVECCHIO ROOM

#### SESSION 7: *Biomaterials & Biocolloids*

**Chairperson: P. Van der Meeren**

- 09.00-09.40 PL8: TH. ZEMB “*Self-Assembled Icosahedra: a Microcrystal, a Cleaved Ionic Solid or a 'Gigamolecule'?*”
- 09.40-10.00 OR7/8: R. DIAS “*Precipitation of DNA by cationic surfactants. Differences between single- and double-stranded DNA*”
- 10.00-10.20 OR7/9: T. PFÖHL “*Biomaterials in Microchannel Mixing Devices Manufactured by Soft Lithography Techniques*”
- 10.20-10.40 OR7/10: A. KOENIG “*DNA as a Linker between Colloids*”
- 10.40-11.00 OR7/11: Y. MOROI “*Mixed Micelle Formation of Sodium Cholate Conjugates and Phosphatidylcholine, and Solubilization of Cholesterol into the Mixed Micelles*”
- 11.10-11.15 Coffee Break

**Chairperson: P. Baglioni**

- 11.15-12.15 RHODIA LECTURE, RH: HENK N.W. LEKKERKERKER “*Liquid Crystal Phase Transitions in Suspensions of Inorganic Rod and Platelike Colloids: New Life from Old Roots*”
- 12.15-12.50 CONCLUDING REMARKS
- 12.50-14.30 Lunch & POSTERS (Session 6, 7, and 8)

## Thursday, 25 September

### PITTI/FRANCIABIGIO ROOM SESSION 8: *Colloids in Nature & Art*

**Chairperson: S. Egelhaaf**

- 09.40-10.10 KN8: P. BAGLIONI “*Nanosciences for the Conservation of Cultural Heritage*”  
10.10-10.30 OR8/1: N. GARTI “*Nano-sized Self-assembled Liquids for Improved Solubilization*”  
10.30-10.50 OR8/2: A.M. GALLARDO-MORENO “*Changes on the Physico-Chemical Properties and Adhesion Behaviour of Enterococcus Faecalis by the Addition of Serum or Urine to the Growth Medium*”  
10.50-11.10 OR8/3: M.A. COHEN STUART “*Oil entering a protein-covered water surface: the effect of protein hardness on a stretching-induced wetting transition*”  
11.10-11.30 Coffee Break

**Chairperson: N. Garti**

- 11.30-11.50 OR8/4: M. GRADZIELSKI “*Macroscopic properties and microscopic structure of organogels: sensitivity to chemical modifications and polar additives*”  
11.50-12.10 OR8/5: G.J.T. TIDDY “*The Interaction of Escherichia coli Membrane Phospholipids with the Nonionic Surfactant Octaoxyethylene-decyl ether (C<sub>10</sub>EO<sub>8</sub>) and Thymol*”  
12.10-12.30 OR8/6: R. WANINGE “*Cryo-TEM investigation of Milk Fat Globule Membrane Structures of Cream*”  
12.30-12.50 OR8/7: C. PONCET-LEGRAND “*Aggregation of flavan-3-ols in model wine solutions: effect of wine polysaccharides, ethanol content and ionic strength*”  
12.50-14.30 Lunch & POSTERS (Sessions 6, 7, and 8)  
15.00-19.00 CHIANTI TOUR WITH WINE TASTING

## Friday, 26 September

### PITTI/FRANCIABIGIO ROOM SESSION 8: *Colloids in Nature & Art*

**Chairperson: J.M. di Meglio**

- 09.40-10.00 OR8/8: I. GRILLO “*Insertion of Laponite clay particles in surfactant lamellar phases*”  
10.00-10.20 OR8/9: A.A. KHARLAMOV “*About in vivo Luminescence of the Aroma of Fruits at their Surface*”  
10.20-10.40 OR8/10: B. JONSSON “*Onset of cohesion in cement paste*”  
10.40-11.00 OR8/11: M. PIERNO “*Liquid-Liquid Phase Separation of a Surfactant-Solubilized Membrane Protein*”  
11.10-11.15 Coffee Break  
12.50-14.30 Lunch & POSTERS (Session 6, 7, and 8)