ECIS

30th Conference of The European Colloid and Interface Society

ROME 4-9 SEPTEMBER, 2016

University of Rome "La Sapienza"

CONFERENCE HANDBOOK

WELCOME

Here we are!

The ECIS 2016 Conference is going to begin and we are honored to give you our warmest welcome.
The ECIS 2016 Conference will represent the best opportunity to share the results of your research in the field of colloids with other colleagues, being them chemists, physicists, biologists or engineers.

The topics will cover fundamental and applied advances in the fields of Interfaces, Dispersed systems, Complex fluids, Micro- and nano-engineered materials and devices formed by naturally occurring or synthesized elements: surfactants, polymers, proteins, particles. During the Conference, plenary lectures will be given by the laureates of the Overbeek 2016 and Solvay 2016 Prizes.

For the third time, the best oral presentation given by a young scientist will be awarded by the Enzo Ferroni Prize and several best poster Prizes will be awarded to young researchers and PhD students.
The best oral presentation of young scientist will be, for the first time, awarded by a prize sponsored by Langmuir.

Elsevier gives the opportunity to publish the articles from the conference in a special issue of Colloids and Surfaces A: Physicochemical and Engineering Aspects after the usual refereeing procedure.
The Young Investigator Training Program (YITP) financed by ACRI (Italian Banking Foundation Association) will give to 10 young researchers from Europe the opportunity to experience a different scientific environment in an Italian Research Center, in connection with attending the ECIS 2016 Conference.

Welcome again and we wish you a pleasant and fruitful ECIS 2016 Conference!

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ECIS 2016

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Aarhus University, Denmark

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Wageningen University and Research, The Netherlands

ECIS 2016

TOPICS

We summarize the very many fields of colloid science in the following general topics:

Self-Assembly

Self-assembly of surfactants, lipids, peptides, proteins and polymers. Supramolecular polymers.

Interfaces, Membranes, Emulsions and Foams

Surface forces. Thin films. Electric surface phenomena. Adsorption. Wetting and adhesion. Confined colloids near interfaces. Microdroplets and Microfluidics. Hydration phenomena. Mono- and multilayers. Characterization and modification of surfaces. Coatings. Biofilms and fouling. Porous media.

Colloidal Dispersions and Colloidal Stability

Suspensions. Colloid aggregation and coalescence. Colloidal glasses. Dissolution and nucleation in colloidal systems. Nanomanipulation of colloids. Active colloids. Peptides and proteins. Particle structure and interactions. Biocolloids.

Polymer Solutions, Gels and Phase Behaviour

Synthetic and biological polymers and polyelectrolytes. Supramolecular polymers. Interactions and phase behaviour. Polymer gels. Supramolecular gels. Dynamics, rheology and mechanics.

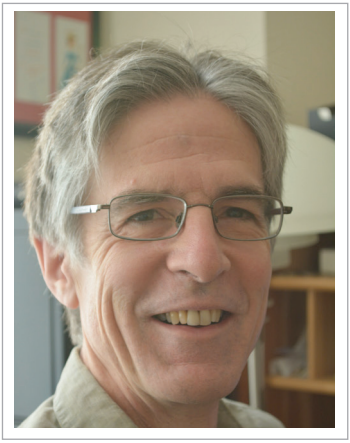
Micro- and Nanostructured Materials

Microgels. Nanocrystals. Nanotubes. Nanoparticles. Micro and mesoporous materials. Functional materials.

Biomaterials and Medical Aspects

Bioinspired and biomimetic material. Drug delivery. Encapsulation. Controlled release. Nanotoxicology.

Experimental and theoretical contributions, fundamental and applicative aspects as well as development of techniques, are considered for all topics.



DAVID PINE

New York University, US

DNA-directed self-assembly of colloidal crystals

Abstract

With the development of new ways to coat colloidal particles with DNA [1,2], it has become possible coat a wide spectrum of colloidal materials with DNA and to follow the crystallization of DNA-coated colloids in real time [3]. Moreover, a whole host of new crystal structures is now possible, including binary colloidal crystals where the different sublattices can be formed from arbitrary different materials [1]. New sublattices are now possible, among them some that have long been sought for their robust photonic band gaps.

Acknowledgements Financial support this work was provided by the U.S. Army Research Office under MURI Grant Award No. W911NF-10-1-0518 by the MRSEC Program of the National Science Foundation under Award Number DMR-1420073.

[1] Yufeng Wang, Yu Wang, Xiaolong Zheng, Étienne Ducrot, Myung-Goo Lee, Gi-Ra Yi, Marcus Weck, and David J. Pine, J. Am. Chem. Soc., 2015, 137, 10760−10766.
[2] Joon Suk Oh, Yufeng Wang, David J. Pine, and Gi-Ra Yi, Chem. Mat., 2015, 27, 8337−8344.
[3] Yu Wang, Yufeng Wang, Xiaolong Zheng, Étienne Ducrot, Jeremy S. Yodh, Marcus Weck, and David J. Pine, Nat. Commun., 2015, 6, 7253.

5 Sept

Aula Magna
08.45 h

KATHLEEN STEBE
University of Pennsylvania, US

Curvature-driven fluxes of colloids

Abstract

There are important fields, intrinsic to soft matter, which we can exploit to direct colloidal assembly. The central idea is this: When a colloid is placed in a soft matter host, the colloid deforms the host, with some energetic consequence. If the host is a fluid interface, changes in interface area and particle wetting energies define the energetic consequence. If the host is a nematic liquid crystal, elastic energy costs owing to deformations of the director field play a role. If the host is a lipid bilayer membrane, costs associated with bending and tension emerge. In each of these examples, by molding the soft matter host within well-defined boundaries, we can define global energy fields that drive colloids along well defined paths to sites for preferred assembly. We demonstrate this concept at fluid interfaces by molding their curvatures. Particles align modes of their deformation fields along principle axes and move along paths defined by the local curvature gradients. We then demonstrate this concept using confined nematic liquid crystals. In this example, we form host director fields that are non-singular. Particles migrate within these fields to form structures guided by the host field, and nest in specific docking sites defined by gentle energy gradients in the vicinity of bounding walls. Finally, we discuss particles trapped on lipid bilayers, which interact with vesicle shape. In each of these examples, in the small deformation limit, there are important analogies to charge multipoles that guide our thinking. For example, for colloids at fluid interfaces, the leading order mode in the particle-sourced distortion is a quadrupolar mode; as such the colloidal distortion couples, via orthogonality, to the anti-symmetric part of the interface curvature. Colloids with homeotropic anchoring in nematic liquid crystals form dipolar or quadrupolar elastic defects, which couple to slopes or curvatures of the nematic director field. The value and limitations of these analogies are explored. Strategies are developed to drive colloids into complex structures.

5 Sept

Aula Magna
13.45 h

MOLLY STEVENS

London Imperial College, UK

Nanomaterials for biosensing and regenerative medicine

Abstract

Bio-responsive nanomaterials are of growing importance with potential applications including drug delivery, diagnostics and tissue engineering [1,2]. This talk will describe our research on the design of new nanomaterials to direct stem cell differentiation for regenerative medicine. This talk will also provide an overview of our recent developments in the design of materials for ultra-sensitive biosensing. We are applying these biosensing approaches both in high throughput drug screening and to diagnose diseases ranging from cancer to global health applications.

[1] M.M. Stevens and J.H. George, Science, 2005, 310, 1135.
[2] P. Howes, R. Chandrawati and M.M. Stevens, Science, 2014, 346, 6205.

6 Sept

Aula Magna
08.45 h

LIBERATO MANNA
Italian Institute of Technology, IT

Chemical, structural and surface transformations in nanocrystals

Abstract

Nanocrystals (NCs) are among the most exploited nanomaterials to date due to their extreme versatility. A major focus of the talk will be on the recent progress on the study of chemical, structural and surface transformations in nanostructures, via both cation and anion exchange, as well as initiated by irradiation or by thermal annealing. Cation exchange is mainly operative in binary ionic compounds and involves replacement of the sublattice of cations with a new sublattice of different cations, while the sublattice of anions remains in place. Some of these transformations, as well as assembly, can now be followed in situ using dedicated transmission electron microscopes with new holder designs and new types of detection systems. An emerging area of research is that of anion exchange, especially in halide perovskites, in which the halide ions exhibit unusually high diffusivities. Mastering anion exchange in perovskite nanostructures, coupled with the possibility of preparing quantum confined structures, has opened new avenues in perovskite-based applications. Finally, new exciting directions have been uncovered recently through the development of plasmonic semiconducting nanoparticles and by the possibility to chemically adjust the density of free carriers in them. Applications of these materials range from catalysis to heavy metal recovery, sensing, photothermal and photodynamic therapy. The talk will also give an outlook on future developments in these various fields.

7 Sept

Aula Magna
08.45 h

PIERO BAGLIONI

Università di Firenze, Italy

A journey through time and length scales in colloid sciencs

Abstract

Colloid Science has always been a central discipline in many applicative areas, and fundamental knowledge from colloids has been applied across a range of industries as pharmaceutical, detergency, paint, and food industries. A precise control on structure and dynamics of colloids is required to transfer a laboratory-scale know how to field applications. This will be even truer in the near future, with the development of sophisticated hierarchically organized systems, where single components combine in a synergistic or orthogonal way to provide enhanced performances for the intended end-applications.

The Florence group has pioneered the application of soft matter science and materials to several fields, one of the most exotic is the conservation of cultural heritage that was pioneered by us. In this field, the same tenets as for the above-mentioned applicative areas hold. Art Conservation poses a formidable and exciting challenge to Colloid and Interface Scientists in two respects. First of all, the majority of the most performing and environmentally-safe cleaning and consolidation agents for artworks are soft matter systems. Secondly, the interaction of these agents with the artifact involves an exceptionally complicated range of interfacial interactions. In this lecture I will review the most meaningful achievements of my group in this field, focusing on the application of colloidal dispersions of increasing complexity, from o/w microemulsions to semi-interpenetrating hydrogels containing o/w microemulsions. These systems have been used on artifacts of the most diverse origins, from Renaissance frescoes to Picasso and Pollock. I will show how chemical and colloidal design can be implemented to meet the requirements of the end-use and how precise knowledge of structure, dynamics and interfacial interactions can contribute to overcome the traditional serendipitous approach used by conservators. Finally, I will try to summarize the main perspectives that this field can disclose for the colloid community.

7 Sept

Aula Magna
13.45 h

SHLOMO MAGDASSI
The Hebrew University
of Jerusalem, Israel

Nanomaterials for functional and 3D printing

Abstract

Our research is mainly focused on synthesis and formulations of nanomaterials, and their utilization as “inks” and “paints” in functional coatings and printing for a variety of applications such as thermosolar power plants and printed electronics. Recent discoveries of several routes for achieving high electrical conductivity of printed metal nanoparticles even at room temperature, which is important for plastics electronics will be discussed. These routes are based on various concepts of colloid and interface chemistry, such as coalescence and wetting processes that are observed in “coffee ring effect”. While combining the low sintering temperatures concepts with self-assembly processes, transparent conductive plastic films were formed, and demonstrated in printed optoelectronic devices such as electroluminescent films and smart windows. Recent developments of new materials will be presented, for 3D and 4D printing, including printed hydrogels, shape memory polymers and utilization in soft robotics.

9 Sept

Aula Magna
08.45 h

Jan van Esch

Delft University of Technology, NL

Fuel-driven active materials

5 Sept

Aula Magna

10.00 h

It remains a huge scientific challenge to understand and mimic the utilisation of chemical energy in biological systems to achieve the highly adaptable organisation and sophisticated functions like active transport, motility, self-repair, replication, and adaptability. The development of biomimetic systems with similar energy consuming organisation and functions requires a radical departure from equilibrium self- assembly approaches, towards out-of-equilibrium systems driven by the continuous input of energy.

In our research we focus on the development of active materials driven by chemicals fuels. First, I will discuss how active materials can result from the transient self-assembly of synthetic molecules, driven by the consumption of a chemical fuel. In these materials, reaction rates and fuel levels, instead of equilibrium composition, determine properties such as lifetime, stiffness, and self- regeneration capability.[1-3] Then, I will discuss our recent steps to achieve temporal and spatial over fuel-driven self-assembly by the development of a chemical reaction network that allow for feedback control. Such systems will form the basis for self-organising systems and for design and construction of energy-consuming dynamic devices and materials.

Lynn M. Walker
Carnegie Mellon University, US

Interfacial properties of fluid-fluid interfaces with adsorbed colloid-surfactant complexes

5 Sept
Odeion Hall
10.00 h

Complexation of colloidal species (particles, proteins, macromolecules) and surfactant in bulk solution has long been used to generate complexes of different geometry, size, and surface chemistry. These complexes will have different interfacial properties than the individual components allowing for the formation of irreversibly adsorbed and elastic interfaces. The detailed control of these interfaces for optimization of interfacial properties is necessary. We are developing the knowledge and tools to have this control and also generating a characterized library of interfaces for study of phenomena like coalescence, deformation and break up of fluid-fluid interfaces. The properties (interfacial tension and interfacial rheology) of fluid-fluid interfaces with either polymer-surfactant complexes and particle-surfactant complexes adsorbed will be discussed. Of specific interest is the ramifications of complex properties on these interfacial properties. Most characterization of interfaces is performed to extract isotherms, or equilibrium and steady-state behavior. For processing, the more relevant information is the transient state; knowledge of transport time scales will have a significant impact on the design of processes. Sequential adsorption to interfaces rather than adsorption of existing complexes from bulk solution provides a method to characterize transport to interfaces and expand the range of composition of multicomponent interfaces. In co-adsorption of hydrophobins and small molecule surfactants, we have been able to generate adsorbed layers with different properties than seen when complexes are adsorbed from the bulk. This ability to control and generate different interfacial properties through the sequence of exposure is important for processing of multicomponent layers.

Véronique Schmitt

Centre de Recherche Paul Pascal, FR

A brief review on Pickering emulsions

5 Sept

T2 Hall

10.00 h

Emulsions are usually stabilized by surfactant or small adsorbing polymers. Although early described by Ramsden and Pickering [1,2], emulsions stabilized by colloidal particles have fallen into oblivion for a long period of time before regaining interest at the end of the 1990s beginning of the 2000s.

Such kind of emulsions are very diverse due to a large variety of possible stabilizing particles, going from naturally occurring to synthesized, either through organic or inorganic chemistry, from hard to very deformable ones and from spherical to non spherical ones. Despite this huge diversity, I will highlight the common features and original properties of particle-stabilized emulsions like elaboration of monodisperse emulsions through limited coalescence process (Fig. 1), interfacial plasticity...

I will propose some remaining open questions that I think, are worth further investigations [3]. Finally I will show some materials deriving from such emulsions as capsules or porous solids.

Meital Reches
The Hebrew University of Jerusalem, IL

Interactions between peptides and inorganic surfaces: towards environmentally-friendly antifouling materials

6 Sept
Aula Magna
10.00 h

Several natural processes are mediated by the interactions between organic and inorganic materials.
The immune response towards an implant inserted into the body is mediated by proteins. Composite materials are formed by the interactions of organic materials (usually proteins) and minerals. Biofouling, the process in which organisms attached to surfaces, is also mediated by organic molecules. Understanding the nature of interactions between organic and inorganic materials will bring to the development of improved implants, new composites and antifouling materials.
This lecture will present single-molecule force spectroscopy measurements of the interactions between individual biomolecules (either amino acid residues or short peptides) and inorganic surfaces in aqueous solution. Using this method, we were able to measure low adhesion forces and could clearly determine the strength of interactions between individual amino acid residues and inorganic substrates. Our results with peptides also shed light on the factors that control the interactions at the organic-inorganic interface.
Based on knowledge from single molecule experiments, we designed a short peptide (tripeptide) that can spontaneously form a coating that resists biofilm formation [3]. Our results clearly demonstrate the formation of a coating on various surfaces (glass, titanium, silicon oxide, metals and polymers). In addition, we showed that this coating prevents the first step of antifouling, which involves the adsorption of bioorganic molecules to the substrate. Moreover, the coating significantly reduces the attachment of various organisms such as bacteria and fungi to surfaces.

Björn Lindman
Lund University, SE

Amphiphilic properties of cellulose and its role in dissolution, regeneration and nanocomposite preparation

6 Sept
Odeion Hall
10.00 h

Cellulose is a polymer so widely abundant and versatile that we can find it almost everywhere in many different forms and applications. Cellulose dissolution is a key aspect of many processes. Cellulose is known to be insoluble in water and in many organic solvents, but can be dissolved in a number of solvents of intermediate properties, like N-methylmorpholine N-oxide (NMMO) and ionic liquids (ILs) which, apparently, are not clearly related. Cellulose can also be dissolved in water at extreme pHs, in particular if a cosolute of intermediate polarity is added. We review the main achievements in the dissolution area and discuss underlying mechanisms. Recent work has much emphasized the role of cellulose charge and the concomitant ion entropy effects, as well as hydrophobic interactions, rather than strong intermolecular hydrogen bonding between cellulose molecules as was suggested in much earlier work. Thus we argue that cellulose is significantly amphiphilic. In addition to presenting recent work on novel cellulose solvents we illustrate the association and precipitation of cellulose from rheology studies, and how they can be affected by other amphiphilic compounds. Cellulose has a strong tendency to re-assemble when dissolved; this process is strongly affected by surfactants and other additives affecting hydrophobic interactions. Cellulose dissolution and regeneration have had important applications for a long time, mainly for textile fibers and for the preparation of cellulose derivatives. In this work we have considered the co-regeneration of cellulose with another polysaccharide. Thus novel cellulose-chitosan nanocomposite particles with spherical shape were successfully prepared via mixing of aqueous biopolymer solutions. Using different protocols, particles of different sizes, biopolymer distribution and porosity could be prepared.

Lydéric Bocquet
Ecole Normale Supérieure, Paris, FR

Nanofluidics insights into the water carbon interface

6 Sept
T2 Hall
10.00 h

Nanofluidics is the frontier where the continuum picture of fluid mechanics confronts the atomic nature of matter. Recent experiments reported exceptional transport properties of water when confined in carbon nanopores. This has stimulated interest in carbon-based membranes for desalination, nano-filtration, and energy harvesting. But these works raised fundamental questions on the specificity of the water-carbon interface, its structure, reactivity and dynamics.

We tackle this question by exploring the transport across individual nanotubes, which allow to adress systematically the fundamental properties at the nanoscales. To this end, we have developed new methods based on the manipulation of nano-scale building blocks which allow to fabricate original fluidic and mechanical systems involving single nanotubes.

I will first discuss an experimental study of ionic transport and current fluctuations inside individual Carbon Nanotubes (CNT). The conductance is found to exhibit a power law behavior at low salinity, with an exponent close to 1/3 versus the salt concentration in this regime. This behavior is rationalized in terms of a salinity dependent surface charge at the water-CNT surface. These results suggest hydroxide adsorption at the (hydrophobic) carbon surface. This is in contrast to its boron nitride analogue, which exhibits a pH dependent - and very high - surface charge. These results are confronted to ab initio simulations.

Then, we explore the water friction at the CNT interface. This is done experimentaly by exploring nanoscale water jets emerging from single CNT. The jets' peculiar hydrodynamics enable us to passively measure pressure-driven flow rates with unprecedented sensitivity and without dyes. Our experiments reveal diameter-dependent surface slippage in carbon nanotubes, with giant flow enhancements in the smallest tubes. In contrast, their boron-nitride analogues, which have the same crystalinity as CNT, exhibit no slippage. This shows that water-solid friction and interfacial slippage originates in subtle and even sub-atomic details of the solid-liquid interface.

Roberto Piazza

Politecnico di Milano, IT

Colloidal swarms can settle faster than isolated particles

6 Sept

T1 Hall
10.00 h

Colloid sedimentation has played a seminal role in the development of statistical physics thanks to the celebrated experiments by Perrin, which gave a concrete demonstration of molecular reality.

Recently, the investigation of sedimentation equilibrium has provided valuable information on a wide class of systems, ranging from simple colloids to active particles and biological fluids. Yet, many aspects of the sedimentation kinetics deserve to be further investigated. Here we present some rather surprising results concerning the effect of interactions on particle settling. Usually, the settling velocity of a colloidal suspension decreases with concentration: this well-known effect is called “hindered’’ settling.

By experimenting on model colloids in which depletion forces can carefully be tuned, we conversely show that attractive interactions consistently “promote” particle settling, so much that, close to a phase—separation line, the sedimentation velocity of a moderately concentrated dispersion can even exceed its single-particle value. At larger particle volume fraction φ, however, hydrodynamic hindrance eventually takes over. Hence, $v(\varphi)$ actually displays a nonmonotonic trend that may threaten the stability of the settling front to thermal perturbations.

By discussing a representative case, we show that these results are relevant to the investigation of protein weak association effects by ultracentrifugation.

Debora Berti
Università degli Studi di Firenze, IT

Nanostructured materials interacting with synthetic and natural lipid membranes

6 Sept
Aula Magna
17.40 h

The tendency of inorganic or polymeric nanoparticles (NPs) to structurally modify and/or permeate biomembranes requires full elucidation to optimize their biomedical applications and/or minimize health risks in consumer products. We addressed these interactions in a prototypical case study, using different model membrane systems, (giant unilamellar vesicles (GUVs), supported lipid bilayers (SLB) and liposomes) challenged with Au NPs, of different size, shape and surface coating.

Each of these structural platforms, even starting from the same lipid composition, has distinct physico-chemical properties and lends itself to investigation with complementary experimental techniques, from bulk to surface to single-object level. Therefore, the combination of experimental observations can provide a detailed picture of the relative contributions to the overall interaction scenario.

After an electrostatic and/or surface-energy driven adsorption, the NPs stiffen the region of contact and “freeze” the lipids in raft-like nanoscale domains. [1] Molecular simulations, performed with the Martini model confirmed the experimental observations. [2] Microfluidic-assisted experiments on single GUVs provide further evidence of this membrane stiffening effect. [3]

Additionally, a membrane-driven aggregation of nanoparticles was observed, whose extent heavily depends on membrane rigidity and NP surface coatings, which can have important and unforeseen applications for bioanalytical purposes. [4] Given the aggregation-dependent plasmonic properties of the particles, this effect can be exploited in the detection of protein contaminants, as we demonstrated in a case study, involving extracellular vesicle isolation.

In vitro experiments performed on and rat macrophages challenged with the same NPs, indicate a close analogy with the observations in synthetic models, providing validation of our experimental approach and indicating a possible roadmap to fully address biomembrane activity of nanoparticles.

Katharina Landfester

Max Planck Institute for Polymer Research, DE

Nanocapsules: tuning interactions to biological matter and designing release gates

7 Sept

Aula Magna
10.00 h

Our vision is to construct multipotent drug-loaded nanocapsules of high homogeneity in size and surface functionality, which find their target cells in the desired organs and release the drug in a controlled manner in the cytoplasm of these cells. For the delivery of bioactive compounds to a specific cell, it is not only vital to improve the stability of the therapeutic agent during passage through the blood stream, but also to extend the circulation time in the body. Consequently many interactions to biological matter have to be considered and tuned: the interaction with blood components (proteins) has to be controlled to limit aggregation processes. Furthermore, the interaction to cell membranes and uptake in blood cells like macrophages has to be minimized. Only then the drug can reach the target cells. And then the specific interaction to target cells have to be tuned.

Our developments in the field of miniemulsion have shown that the miniemulsion technique is an extremely powerful and versatile approach for the formation of complex carriers in order to encapsulate different kinds of reporter molecule and drugs, demonstrating a high significance for medical applications. The main advantage clearly lies in the simultaneous encapsulation of relevant hydrophobic or hydrophilic drugs or biomolecules (DNA, siRNA, enzymes or proteins) and/or fluorochromes. We design nanocapsules that are defined with respect to their surface according to their spatial (topological) and chemical structure. The surface morpophology of nanocapsules can be adjusted so that nanocapsules interact specifically with proteins in the blood stream resulting in stealth nanocarriers. Defined targeting structure on the nanocapsules allows an uptake of the nanocapsules in target cells. In the last step, the release of the payload in the cells is required. Here, different gates can be introduced in the nanocapsule' shell for specific (and switchable) release of the payload.

SELECTED KEYNOTES

Francesca Baldelli Bombelli
Chemistry, Materials and Chem. Eng. G. Natta, Politecnico di Milano, Italy
Self-Assembled Bio-reducible Hybrid Supraparticles

Paola Brocca
Department of Medical Biotech & Traslational Medicine, University of Milan
Structural response of biopolymer coated delivery-nanoparticles to interaction with syntetic and cellular model mucus

Roberto Di Leonardo
CNR-NANOTEC, Physics Department, Sapienza University of Rome, Italy
The 3D dynamics of wall-entrapment in swimming bacteria

Martin Malmsten
Department of Pharmacy, Uppsala University, Sweden
Pronounced peptide selectivity for melanoma through tryptophan end-tagging

Wei-Ren Chen
Oak Ridge National Laboratory
Origin of nonlinear rheology in colloidal suspensions

Marjolein Dijkstra
Utrecht University
Critical Casimir Forces and Colloidal Phase Transitions in a Near-Critical Solvent

Gerardo Palazzo
Department of Chemistry, University of Bari, Bari, Italy
What is the reason why gold nanoparticles synthesized by Laser Ablation in Liquids are stable?

Uri Sivan
Dep. of Physics, Technion-Israel Institute of Technology, Haifa, Israel
Short-Range Hydrophobic Repulsion Revealed by FM-AFM

Anna Stradner
Division of Physical Chemistry, Lund University, Lund, Sweden
Arrest Scenarios in Concentrated Protein Solutions

Richard Campbell
Large Scale Structures, Institute Laue-Langevin, France
Correlation of foam film stability to the interfacial composition of polyelectrolyte/surfactant mixtures: effects of backbone rigidity

Michal Kalina
Materials Res. Centre, Brno University of Technology, Brno, Czech Republic
Interconection between structure, rheological and transport properties of reactive hydrogels

SELECTED KEYNOTES

ECIS 2016

Aleksandra Dabkowska
Division of Physical Chemistry, Department of Chemistry, Lund University, Sweden
Responsive nanostructured films: non-lamellar lipid liquid crystalline phases with embedded polymer microgels

Erika Eiser
University of Cambridge, Cavendish Laboratory, UK
Light driven colloidal aggregation at a liquid-liquid interface

Taco Nicolai
IMMM, Université du Maine, Le Mans, France
Effect of particle morphology on the structure and stability of particle stabilized water in water emulsions

Lennart Piculell
Physical Chemistry, Department of Chemistry, Lund University, Sweden
How hard do we dry?

Victor Starov
Loughborough University, UK
Current problems in kinetics and wetting

Bradley Chmelka
UCSB
Surface compositions, structures, and properties of surfactant-directed nanoscale semiconductors

Joachim Dzubiella
Soft Matter and Functional Materials, Helmholtz-Zentrum Berlin
Rational design of stimuli-responsive nanoreactors

Toyoko Imae
Graduate Institute of Applies Science and Technology, National Taiwan University of Science and Technology, Taiwan
Architecting of advanced systems for pollutant removal

Jérôme J. Crassous
Division of Physical Chemistry, Department of Chemistry, Lund University, Sweden
Multiscaled directed self-assembly of composite microgels in complex electric fields

Petr Stepanek
Institute of Macromolecular Chemistry, Prague, Czech Republic
Controlling interaction of polymer nanoparticles with biological media

Robert Pelton
Chemical Engineering, McMaster University, Hamilton, Canada
Nanoparticle Particle Flotation Collectors from High-Throughput Polymer Colloid Screening

How to get to the campus

By plane

Rome can be reached from most international and national destinations. Most major airlines use “Leonardo da Vinci” Airport in Fiumicino (FCO). On the other hand, low-cost budget airlines often fly to Ciampino Airport (CIA).

From Fiumicino Airport to Rome and backwards

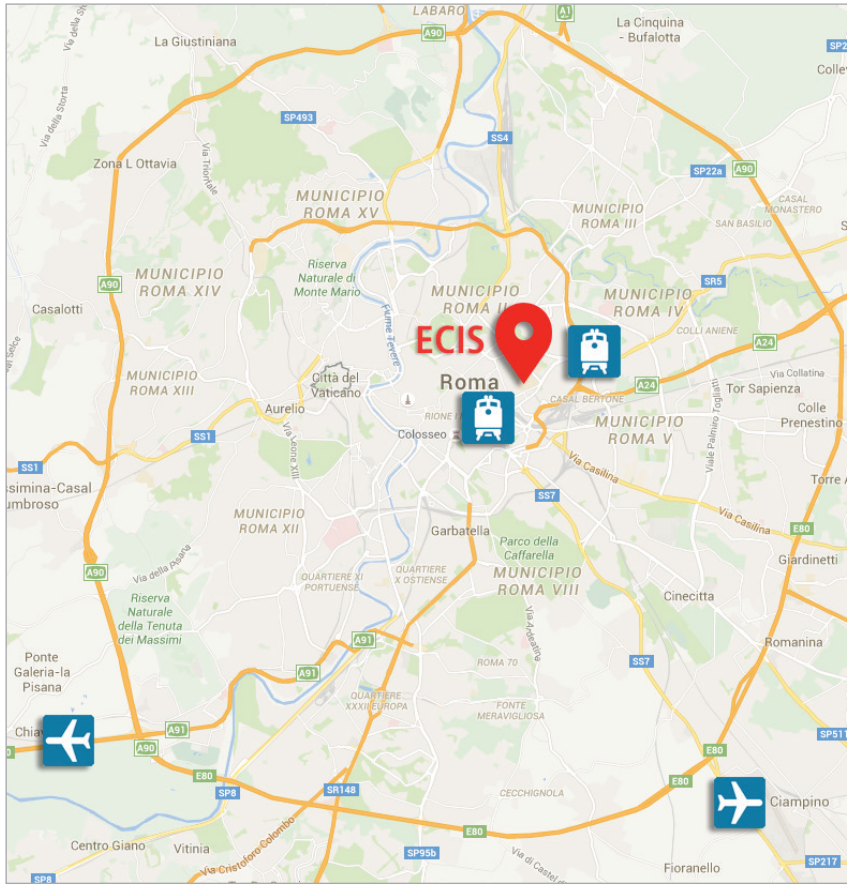
Direct Train “Leonardo Express” to Roma Termini Railway Station (11.50 euros). Departure every 30 minutes. Time: 35 minutes
Local Train to Roma Tiburtina Railway Station. Trains connecting Fiumicino Aeroporto to Fara Sabina / Orte, stops in all intermediate stations (6 euro). Every 15 minutes. Time: 45 minutes
See below for connections between Termini and Tiburtina Stations to the University
Taxi: 40 euro (all inclusive fare)

From Ciampino Airport to Rome and backwards

“Terravision” Shuttle to Via Marsala (Termini Station) 8 euros.
Time: 40 minutes
Bus to Ciampino Railway Station + Train to Termini Station. Every 20 minutes. Time: 18 minutes
“Co.tra.l.” line bus to Subway (Metro) Station Anagnina + Metro Line A from Anagnina to Termini
Taxi: 30 euro (all inclusive fare)

By train

The timetable of Italian Railways can be obtained from the Trenitalia Homepage where online booking is possible
Most Italian and European destinations are connected to Rome by trains stopping at Termini Station, which is 15 minutes walk from Università La Sapienza (see map), and it is connected by 310 bus line (4 stops)
Few trains (including local trains from Fiumicino Airport) stop in Tiburtina Station. Tiburtina Station is 25 minutes of (unpleasant) walk from the University Sapienza, it is connected by Metro line B (Policlinico station) and 71, 163, 448, 492 and 545 bus lines (piazzale Verano stop, entrance from via Cesare de Lollis).



Interactive web maps

- Hotels
- Restaurants
- Cafe
- Pizzerias
- Taverns
- Local vegetarian

MAIN CAMPUS MAP

Tensil structures

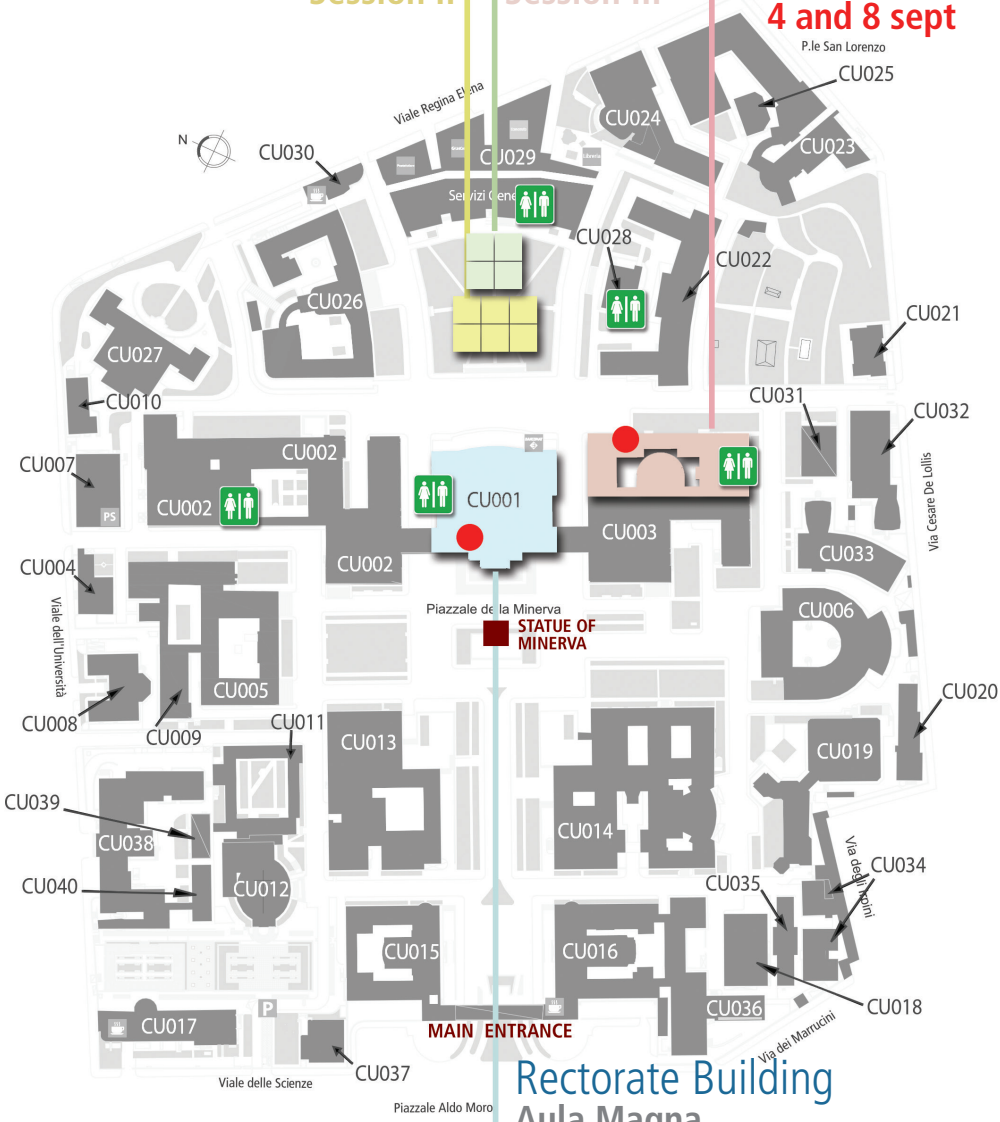
T1
Session II

T2
Session III

Classical Art Museum

Odeion Hall
Session IV
Poster sessions

REGISTRATION
4 and 8 sept



Rectorate Building

Aula Magna
Session I
Plenary lectures
Terrace - Welcome cocktail
coffee breaks & lunches

REGISTRATION
5 - 7 and 9 sept

PROGRAM
4 SEPT SUNDAY

ECIS 2016

17.20	**Registration** (Classical Art Museum)
17.30	**Welcome Cocktail** (Rectorate Building Terrace)
19.15	**Concert DUO** Diego Di Mario - Hilary Bassi Trombone and Piano “Notes at Interface” How music can mix the immiscible (Classical Art Museum - Odeion Hall)
20.00	

Session I	Session II	Session III	Session IV
Rectorate Building	Tensil structure	Tensil structure	Classical Art Museum
Aula Magna	T1	T2	Odeion Hall

ECIS 2016

PROGRAM MONDAY SEPT 5

08.40	Aula Magna - Opening Ceremony	
09.00	**Pine David** chair Francesco Sciortino **PL1 - DNA-directed self-assembly of colloidal crystals**	
09.45	Terrace Aula Magna Coffee break	
	SESSION I Aula Magna	SESSION II T1 - Tensil structure
10.15	**IK1 - Van Esch Jan** Fuel-driven active materials	**SK1 - Piculell Lennart** How hard do we dry?
10.45	**O1 - Blaak Ronald** Magnetically functionalized star-polymers	**O6 - Maas Michael** Electrostatic Assembly of Zwitterionic and Amphiphilic Nanoparticles
11.05	**O2 - Canning Sarah** pH-Responsive, zwitterionic, schizophrenic diblock copolymer micelles by polymerisation-induced self-assembly	**O7 - Csapo Edit** Ultra-small gold nanoclusters with tunable fluorescent features: syntheses, structural identification and sensoric applications
11.25	**O3 - Chakraborty Indrani** Colloidal joints with tunable joint stiffness assemble into reconfigurable structures	**O8 - Sanz Eduardo** The mystery of the discrepancy between experiments and simulations in hard sphere crystallization
11.45	**O4 - Silva Bruno** Microfluidics with in-situ SAXS to probe the time evolution of the lamellar-microemulsion transition induced by a concentration jump	**O9 - Lai San Kiong** Coexistence of gas-liquid-solid phases in colloidal uncharged hard spheres induced by a disc-like depletion agent
12.05	**O5 - Paunov Vesselin** Cyclodextrin Stabilised Emulsions, Cyclodextrinosomes and Cyborg Cells	**O10 - Bergman Maxime** Depletion interaction in binary mixtures of thermoresponsive microgels
12.30	Lunch	Lunch

PROGRAM
5 SEPT MONDAY

ECIS 2016

08.40	Aula Magna - Opening Ceremony	
09.00	**Pine David** chair Francesco Sciortino **PL1 - DNA-directed self-assembly of colloidal crystals**	
09.45	Terrace Aula Magna Coffee break	
	SESSION III T2 - Tensil structure	SESSION VI Odeion hall
10.15	**IK2 - Schmitt Veronique** A brief review on Pickering emulsions	**IK3 - Walker Lynn** Interfacial properties of fluid-fluid interfaces with adsorbed colloid-surfactant complexes
10.45	**O11 - Sartori Paolo** Drop motion induced by vertical vibrations	**O16 - Moehwald Helmuth** Light induced pH-changes in responsive hydrogel composites
11.05	**O12 - Nick Koumakis** Bacterial swimmers in a near critical binary mixture	**O17 - Beldengrün Yoran** Formation of responsive enzyme-loaded gelatin microgels using water-in-water emulsions
11.25	**O13 - Braunschweig Björn** Building blocks with tunable electrostatic interactions at the gas/liquid interface as a driving force for macroscopic foam stability and structure	**O18 - Geyer Florian** Super liquid-repellent membranes for efficient carbon dioxide capture
11.45	**O14 - Guzmán Eduardo** Polyelectrolyte-surfactant mixtures adsorption onto water/solid and water/vapor interfaces: a physicochemical study with potential technological applications	**O19 - Shchipunov Yury** Cellulose aerogels functionalized by silica and titania
12.05	**O15 - Totland Christian** Structural Properties of Water at Solid-Liquid Interfaces from NMR Spectroscopy and its Possible Role in Adsorption	**O20 - Schellenberger Frank** How water advances on superhydrophobic surfaces
12.30	Lunch	Lunch

ECIS 2016

PROGRAM MONDAY SEPT 5

13.45 Aula Magna
Stebe Kathleen chair **Regine von Klitzing**
PL2 - Curvature-driven fluxes of colloids

	SESSION I Aula Magna	SESSION II T1 - Tensil structure
14.35	**O21 - Bester-Rogac Marija** Enthalpy-Entropy Compensation of Micellization Process in Water: The Case of Ionic Liquids	**O30 - Worsch Peter** How to choose the optimum configuration for a laboratory SAXS system
14.55	**O22 - Cockram Amy** Effect of monomer solubility on the evolution of copolymer morphology during polymerisation-induced self-assembly in aqueous solution	**O31 - Ramsch Ronald** Analysis of fat properties thanks to microrheology
15.15	**O23 - Ferreira Guilherme** Added n-alcohols change the liquid-crystalline “complex salt” core structure in complex salt core-shell particles dispersed in water	**O32 – Frédéric Bossan** Latest innovations for colloid & interface characterization with Xenocs SAXS/WAXS instruments
15.35	Coffee break	Coffee break
16.00	**O24 - Hubert Céline** Directional self-assembly of patchy particles	**O33 - von Klitzing Regine** Temperature induced ordering in colloidal suspensions confined in thin films
16.20	**O25 - Novelli Federica** pH and thermo-sensitive self-assembling properties in aqueous solution of the lipopetide lauril-Gly-Gly-D-Ser-D-Lys-NH2	**O34 - Petekidis George** Dynamics of concentrated suspensions of soft semi-permeable colloids
16.40	**O26 - Matejicek Pavel** Self-assembly of anionic boron cluster compounds	**O35 - Deblais Antoine** Taming contact line instability for pattern formation
17.00	**O27 - Sabadini Edvaldo** The thermal stability of wormlike micelles	**O36 - Bianchi Emanuela** On the propensity of inverse patchy colloids to form lamellar structures
17.20	**O28 - Aramaki Kenji** Bilayer formation by double-tailed nonionic surfactants	**O37 - Pastore Raffaele** Many facets of intermittent dynamics in colloidal and molecular glasses
17.40	**O29 - Procházka Karel** Electrostatic assembly in non-stoichiometric mixtures of double-hydrophilic block copolymers. Computer study	**O38 - Varga Imre** Preparation of Unique Core/Shell pNIPAm-based Microgel Particles with Hydrophilic Shells

18.00 – 20.00 **Poster Session A**

PROGRAM
5 SEPT MONDAY

ECIS 2016

13.45 Aula Magna
Stebe Kathleen chair **Regine von Klitzing**
PL2 - Curvature-driven fluxes of colloids

SESSION III
T2 - Tensil structure

14.35 **O39 - Miranda Paulo B.**
Interaction between antimicrobial polyelectrolytes and membrane models studied by SFG vibrational spectroscopy

14.55 **O40 - Mangiapia Gaetano**
Investigation of the effect of some active principles on phospholipid based membranes

15.15 **O41 - Ortega Francisco**
Interfacial shear micro- and macrorheology of Langmuir monolayers: Fatty acids, fatty alcohols and polymers

15.35 Coffee break

16.00 **O42 - Roger Kevin**
Nanoemulsification and phase inversion: myths and realities

16.20 **O43 - Browning Kathryn**
Adsorption of atherosclerotic lipoproteins to supported lipid bilayers

16.40 **O44 - Dubacheva Galina**
Multivalent probes as a versatile tool for efficient, selective and tunable supramolecular assembly

17.00 **O45 - Zanini Michele**
Wetting of rough particles at flat liquid-liquid interfaces

17.20 **O46 - Vargas Ruiz Salomé**
Near surface ordering of environmentally friendly microemulsions for decontamination of lipophilic hazardous materials

17.40 **O47 - Bach Monika**
clickECM – a new approach to click-modify the human cell-derived ECM

SESSION VI
Odeion hall

14.35 **O48 - Carbone Marilena**
NiO morphology dependent optical and electrochemical properties

14.55 **O49 - Gonzalez-Garcia Lola**
Ultrathin gold nanowires as self-organizing inks for printed electronics

15.15 **O50 - Pigliacelli Claudia**
Water-dispersible fluorous gold supraparticles

15.35 Coffee break

16.00 **O51 - Daniel-da-Silva Ana**
Biopolymer-silica hybrid nanoparticles prepared by a non-emulsion method and application in water treatment

16.20 **O52 - Trindade Tito**
Nanomaterials for water purification technologies

16.40 **O53 - Meazzini Ilaria**
Synthesis of photoluminescent organic-inorganic ureasil nanoparticles for imaging applications

17.00 **O54 - Ardizzone Antonio**
Quatsomes: stable and versatile vesicular scaffolds for nanostructuring organic dyes in water

17.20 **O55 - Tesei Giulio**
Aggregation of a highly charged peptide in monovalent salt solution

17.40 **O56 - Ünal Özlem**
Self - luminescent polyethyleneimine coated iron oxide nanoparticles for gene delivery and imaging

Poster Session A

	Aula Magna	
08.45	**Stevens Molly** chair **Martin Malmsten** **PL3 - Nanomaterials for biosensing and regenerative medicine**	
09.30	Terrace Aula Magna **Coffee break**	
	SESSION I Aula Magna	**SESSION II** T1 - Tensil structure
10.00	**IK4 - Reches Meital** Interactions between Peptides and Inorganic Surfaces: Towards Environmentally-Friendly Antifouling Materials	**IK5 - Piazza Roberto** Colloidal swarms can settle faster than isolated particles
10.30	**O57 - Zumbuehl Andreas** Vesicle origami	**O63 - Heidt Sabrina** Melting investigations using charged colloids
10.50	**O58 - Laura Chronopoulou** Biofabrication of gelling Fmoc-peptides as useful tools in biotechological applications	**O64 - Reiser Beate** Colloidally stable inks of nanoparticle-polymer hybrids for printed electronics
11.10	**O59 - Fameau Anne-Laure** Photoresponsive Self-Assemblies based on Fatty Acid	**O65 - Ferraro Giovanni** Evolution of soot in a heavy-duty diesel engine
11.30	**O60 - di Gregorio M. Chiara** Highly Versatile Metal-Organic Frameworks	**O66 - Helm Christiane** Lipid monolayers with polyelectrolytes adsorbed in a 2-dimensional lamellar phase
11.50	**O61 - Campioni Silvia** Effect of the air-water interface on the self-assembly of human α-synuclein	**O67 - Wlodek Magdalena** Effect of Quantum Dots size on their incorporation into POPC/POPE supported lipid bilayers in dependence of the cushion polyelectrolyte multilayers.
12.10	**O62 - Jiang Haihui Joy** Ionic Liquids Induce Surfactant-free Self-assembly	**O68 - Marie Emmanuelle** Polymer coatings for dynamic adjustment of specific and non-specific interactions for cell culture
12.30	**Lunch**	**Lunch**

PROGRAM
6 SEPT TUESDAY

ECIS 2016

08.45	Aula Magna **Stevens Molly** chair **Martin Malmsten** **PL3 - Nanomaterials for biosensing and regenerative medicine**	
09.30	Terrace Aula Magna **Coffee break**	
	SESSION III **T2 - Tensil structure**	SESSION VI **Odeion hall**
10.00	**IK6 Bocquet Lyderic** Nanofluidics insights into the water carbon interface	**IK7 Lindman Björn** Amphiphilic properties of cellulose and its role in dissolution, regeneration and nanocomposite preparation.
10.30	**O69 Meissner Max** Oil-in-water microfluidics on the colloidal scale: new routes to self-assembly and the glass transition	**O75 Zemb Thomas** Choline hydroxide as an antagonistic electrolyte in structured hydrotropic co-solvents for enhanced wood swelling
10.50	**O70 Gnan Nicoletta** Dynamical and structural signatures of the glass transition in emulsions	**O76 Taboada Pablo** Hybrid Nanoparticles for multimodal imaging and therapy
11.10	**O71 Cejkova Jitka** Pattern formation of decanol droplets placed in evaporating sodium decanoate drops	**O77 Shpaisman Hagay** Shaping polymeric colloids with optical traps
11.30	**O72 Sadeghpour Amin** Interactions of Flavonoids with Biomimetic Membranes	**O78 Rodriguez Abreu C.** From soft chromonic liquid crystals to hard nanostructured fibers
11.50	**O73 Luben Arnaudov** Saponins — natural surfactants with unique properties and functionality	**O79 Koo Chong Min** Nanostructured electroactive polymer nanocomposites for large electromechanical actuation
12.10	**O74 Pereira-Leite Catarina** Diclofenac-membrane interactions: the impact of drug ionization state	**O80 Wolf Heiko** T4.18 ID50 - Programmable assembly of hybrid colloidal molecules
12.30	**Lunch**	**Lunch**

ECIS 2016

PROGRAM
TUESDAY SEPT 6

	SESSION I - Aula Magna	SESSION II - T1
13.45	**SK2 - Baldelli Bombelli F.** Self-Assembled Bio-reducible Hybrid Supraparticles	**SK3 - Stradner Anna** Arrest Scenarios in Concentrated Protein Solutions
14.10	**O81 - Di Michele Lorenzo** Structural and kinetic control in lipid mesophases by coupling mobile ligands to soft membranes	**O90 - Retamal Marín R.** Comparability of zeta potential measurements of colloidal particles
14.30	**O82 - Gentile Luigi** Steady viscosity oscillations in a nonionic lamellar phase	**O91 - Mazzini Virginia** The Hofmeister series and other specific-ion effects in non-aqueous solvents
14.50	**O83 - Sperling Marcel** Silica-based self-propelling supraparticles showing oscillating motion and controllable trajectories	**O92 - Neburkova Jitka** Preparation and comparison of dense polymeric shells on inorganic nanoparticles
15.10	Coffee break	Coffee break
15.40	**O84 - Ricouvier Joshua** Colloidal molecules made with microfluics	**O93 - Munaò Gianmarco** Self-assembly of colloidal dimers around spherical nanoparticles: a simple model for encapsulation
16.00	**O85 - Rouet Pierre-Etienne** Regioselective functionalization and assembly of patchy particles	**O94 - Boniello Giuseppe** Control of colloidal aggregation and colloid-substrate adhesion by temperature-triggered interaction
16.20	**O86 - Moya Sergio** Virosome Engineering of Colloidal Particles and Surfaces: Bioinspired Fusion to Supported Lipid Layers	**O95 - Pavlovic Marko** Stabilization of layered nanomaterials by polyelectrolytes
16.40	**O87 - Pegg Jonathan** pH tunable self-assembly of a methacrylate-based hydrophobic cationic copolymer	**O96 - Zeliszewska Paulina** Mechanisms of fibrinogen adsorption on colloid microparticles
17.00	**O88 - Iwashita Yasutaka** Density dependence of orientational order in one-patch particles	**O97 - Szabo Tamas** Size- and pH-dependent aggregation of graphite oxide and rapheme oxides
17.20	**O89 - Hu Yingxue** Self-assembly of photoswitchable carbohydrate amphiphiles and their antibacterial and antifreeze properties	**O98 - Okada Kazuya** Phase change in aggregate structures of magnetic cube-like particles on a plane surface by means of Monte Carlo simulations
17.40	**IK8 - Debora Berti** Nanostructured Materials interacting with Synthetic and Natural Lipid Membranes	**SK4 - Dijkstra Marjolein** Critical Casimir Forces and Colloidal Phase Transitions in a Near-Critical Solvent
18.10 19.00	**ECIS General Assembly**	

PROGRAM
6 SEPT TUESDAY

ECIS 2016

	SESSION III - T2	SESSION VI - Odeion hall
13.45	**SK5 Campbell Richard** Correlation of foam film stability to the interfacial composition of polyelectrolyte/surfactant mixtures: effects of backbone rigidity	**SK7 Chmelka Bradley** Surface compositions, structures, and properties of surfactant-directed nanoscale semiconductors
14.10	**O99 Czajka Adam** Surfactants at the Design Limit	**O108 Bratek-Skicki Anna** Selective Protein Adsorption on Stimuli-Responive Brushes
14.30	**O100 Joshi Darshana** Heterogeneous pattern formation of small colloids grafted to large oil droplets using DNA	**O109 Travaglini Leana** Fine morphology control of mesoporous silica particles: small hexagonal platelets for functional materials
14.50	**O101 Peach Jocelyn** Designing viscosity modifiers for supercritical CO2 microemulsions	**O110 Corrales Tomas** Surface Morphology of Vapor-Deposited Chitosan: Evidence of Solid-State Dewetting during the Formation of Biopolymer Films
15.10	Coffee break	Coffee break
15.40	**O102 Kralchevsky Peter** Effect of ionic correlations on the surface forces in thin liquid films: influence of multivalent coions and extended theory	**O111 Sanchez-Dominguez M.** CuO nanostructures: follow-up of their formation in microemulsions, functionalization and hydrophobic coatings
16.00	**O103 Jaakko Timonen** Magnetofluidic tweezing of nonmagnetic colloids	**O112 Bourgeat-Lami E.** Synthesis of organic/inorganic nanostructured colloids by RAFT-mediated emulsion polymerization
16.20	**O104 Niu Ran** Modular phoretic micro-swimmers	**O113 Briddick Arron** Surfactant and Plasticiser Segregation in Thin Poly(vinyl alcohol) Films
16.40	**O105 Pham Quoc Dat** Molecular mobility of solvents, lipids and proteins in intact stratum corneum	**O114 Udoh Christiana** Microporous polymer particles via phase inversion of microfluidics: impact of non-solvent quality on microstructure
17.00	**O106 Reggente Melania** Synthesis and nanomechanical characterization of hybrid titanium/poly(methyl methacrylate) (Ti/PMMA) materials for medical devices	**O115 Eivazihollagh Alireza** One-pot synthesis of cellulose-templated copper nanoparticles
17.20	**O107 Viitala Lauri** Surface Plasmon Resonance Microscopy (SPRM) of photothermal liposomes: detection of encapsulated nanoparticles inside the liposomes	**O116 Hara Kenji** Iron-immobilized periodic mesoporous organosilica as active and selective catalyst for amino alcohol synthesis
17.40	**SK6 Sivan Uri** Short-Range Hydrophobic Repulsion Revealed by FM-AFM	**SK8 Imae Toyoko** Architecting of advanced systems for pollutant removal
18.10 19.00	**ECIS General Assembly**	

08.45	Aula Magna **Liberato Manna** chair **Bradley Chmelka** **PL4 - Chemical, Structural and Surface Transformations in Nanocrystals**
09.30	Terrace Aula Magna **Coffee break**

	SESSION I Aula Magna	SESSION II T1 - Tensil structure
10.00	**IIK9 - Landfester Katharina** Nanocapsules: Tuning interactions to biological matter and designing release gates	**SK10 - Dzubiella Joachim** Rational design of stimuli-responsive nanoreactors
10.25	**O117 - Van der Meeren Paul** Quantification of counterion binding to and its effects on aqueous dispersions of dialkyl cationic surfactants	**O122 - Briscoe Wuge** Multi-Step Non-Classical Crystallization Pathway under Conditions Far from Equilibrium
10.45	**O118 - Aloi Antonio** Imaging the topology of soft and deformable interfaces by single-molecule localization microscopy	**O123 - Lazzari Stefano** Temperature-dependent modeling of formation and growth of II-VI semiconductor nanocrystals
11.05	**O119 - Stark Kirsty** The importance of metal nanoparticle adsorption during emulsification in the formation of metallic microcapsules for the retention of low molecular weight species	**O124 - Izquierdo Javier** Boron-doped diamond modified with gold nanoparticles as analytical platform for the investigation of proteins
11.25	**O120 - Arjmandi Tash Omid** Foam Drainage: Free and Interaction with Porous Substrates	**O125 - Tardani Franco** Graphene oxide films with tunable structures
11.45	**O121 - Steffen Werner** Towards monodisperse spray	**O126 - Popovetskiy Pavel** Reverse microemulsions with silver and gold nanoparticles and high water content
12.05	**SK9 - Starov Victor** Current problems in kinetics and wetting	**O127** **Sellapperumage Pasindu** Selective droplets attachments on hydrophilic mineral surfaces
12.30	**Lunch**	**Lunch**

PROGRAM
7 SEPT WEDNESDAY

ECIS 2016

08.45	Aula Magna **Liberato Manna** chair **Bradley Chmelka** **PL4 - Chemical, Structural and Surface Transformations in Nanocrystals**	
09.30	Terrace Aula Magna **Coffee break**	
	SESSION III **T2 - Tensil structure**	SESSION VI **Odeion hall**
10.00	**SK11 - Crassous Jérôme J.** Multiscaled directed self-assembly of composite microgels in complex electric fields	**SK13 - Pelton Robert** Nanoparticle Particle Flotation Collectors from High-Throughput Polymer Colloid Screening
10.25	**O128 - Boire Adeline** Unravelling the contrasting phase behavior of wheat gliadins: how to store storage proteins.	**O133 - Philipse Albert P.** Shape-sensitive dipolar structure formation in magnetic cube fluids
10.45	**O129 - Castro Nicolò** Self-assembly of Janus nano particles in solution	**O134 - Chan Derek** Bubble impact at complex deformable fluid interfaces
11.05	**O130** **Sabapathy Manigandan** Synthesis of Non-spherical Patchy Particles at FluidFluid Interfaces via Differential Deformation and their Self-Assembly	**O135 - Kolman Krzysztof** pH-controlled assembly of nanoparticle-polyelectrolyte complexes and their application to modern art restoration
11.25	**O131** **Sanchez-Fernandez Adrian** Influence of headgroup-solvent interactions on micellization in deep eutectic solvents	**O136 - Štepánek Miroslav** Magnetic nanoparticles and polyelectrolytes in aqueous solutions: co-assembly behavior and applications
11.45	**O132 - Mendes Eduardo** Multi-responsive gel cilia: bulk and actuating properties	**O137 - Boinovich Ludmila** Surface forces in thin films of nonpolar liquids and solutions with nonpolar solvent
12.05	**SK12 - Palazzo Gerardo** What is the reason why gold nanoparticles synthesized by Laser Ablation in Liquids are stable?	**SK14 - Chen Wei-Ren** Origin of nonlinear rheology in colloidal suspensions
12.30	**Lunch**	**Lunch**

ECIS 2016

PROGRAM WEDNESDAY SEPT 7

13.45 Aula Magna
Piero Baglioni chair **Piotr Warszynski**
PL5 - A Journey through Time and Length Scales in Colloid Science

	SESSION I - Aula Magna	SESSION II - T1
14.35	**O138 - Gonella Grazia** Shedding new light on nano-bio interfaces	**O145 - Boge Lukas** Lipid-based liquid crystals as drug delivery vehicles for anti-microbial peptides
14.55	**O139 - Huerre Axel** Ultrafast deformation of colloid monolayers at fluid interfaces: microstructural evolution and particle expulsion	**O146 - Pucci Carlotta** Impact of the formulation pathway on the generation of nanoprecipitated polycaprolactone particles
15.15	**O140 - Jeridi Hayfa** Colloidal particles embedded in thin nematic liquid crystal films	**O147 - Rovigatti Lorenzo** Bottom-Up Colloidal Crystal Assembly with a Twist
15.35	Coffee break	Coffee break
16.00	**O141 - Meister Konrad** Structure and Orientation of Hydrophobins at the Air-Water Interface	**O148 - Voigtländer Kathrin** Layer-by-Layer Modification of Self-Assembled Nanotubes from Amino Acid Amphiphiles in Solution
16.20	**O142** **Mehandzhiyski Aleksandar** Molecular Dynamics Study on the Film Drainage in Water-in-Oil Systems	**O149 - Gubitosi Marta** Cellulose in tetrabutylammonium acetate: from the dissolution state to spun fibers
16.40	**O143 - García Nicolás A.** Effective potentials in crowded environments	**O150 - Bazylinska Urszula** Rationally designed double emulsion process: a new route to prepare biocompatible nanocarriers of hybrid fluorophores
17.00	**O144** **Heuberger Manfred** Altering the protein-surface interface via subsurface structuring	**O151** **Bertleff-Zieschang Nadja** Tuning Capsules from Metal Phenolic Networks for Biomedical Applications

17.20 Poster Session B

20.30 Social Dinner

PROGRAM
7 SEPT WEDNESDAY

ECIS 2016

13.45 Aula Magna
Piero Baglioni chair **Piotr Warszynski**
PL5 - A Journey through Time and Length Scales in Colloid Science

SESSION III - T2

14.35 **O152 - Murtomäki Lasse**
Photothermally triggered phase transition in drug delivery liposomes

14.55 **O153 - Lovett Joseph**
A robust cross-linking strategy for block copolymer worms prepared via polymerization-induced self-assembly

15.15 **O154 - Capone Barbara**
Diblock Copolymer Brushes: soft crystalline patterning of a polymeric template

15.35 Coffee break

16.00 **O155**
De Michele Cristiano
Hierarchical propagation of chirality through reversible polymerization: the cholesteric phase of DNA oligomers

16.20 **O156 - Tang Hu**
Tuning shear banding in entangled DNA-PNIPA hybrids

16.40 **O157**
Fernandez-Castanon Javier
SANS and molecular dynamics structural study of gelling DNA nanostars

17.00 **O158 - Cragnell Carolina**
Structural characterization of the intrinsically disordered saliva protein Histatin 5: A combined SAXS and Monte Carlo simulation study

SESSION VI - Odeion hall

O159 - Russo Krauss Irene
Towards a successful combination of aptamers and nanoparticles for anticoagulant applications

O160 - Valldeperas Maria
Lipid sponge phases and nanoparticle dispersions able to entrap large biomolecules

O161 - Perez Lourdes
Monoquaternary and gemini histidine-based surfactants as new antimicrobial agents

Coffee break

O162 - Valente Artur
Formulation of a Copper(II) Dibrominated Salen Complex in PluronicsTM P-123 and F-127 Copolymeric Micelles

O163 Desideri Alessandro
Synthesis and characterization of an octahedral DNA nanocage having a pH dependent opening/closing switching mechanism and analysis of its entry in mammamalian cells

O164 - Cerreto Marina
Neuroblastoma-derived microvesicles differ from non-tumoral-derived in physical characteristics and biological effects

O165 - Ran Qidi
Interaction of hyperbranched polyglycerol sulfate with serum proteins

17.20 Poster Session B

20.30 Social Dinner

ECIS 2016

PROGRAM
THURSDAY SEPT 8

	SESSION II T1 - Tensil structure	SESSION III T2 - Tensil structure
08.45	**SK15 - Kalina Michal** Interconnection between structure, rheological and transport properties of reactive hydrogels	**SK16 - Malmsten Martin** Pronounced peptide selectivity for melanoma through tryptophan end-tagging
09.10	**O166 - Le Coeur Clémence** Clay/polymer hybrid hydrogel: tuning rheological properties by controlling polymer adsorption	**O175 - Xenakis Aristotelis** Oil-in-water microemulsions as carriers of an anticancer drug against melanoma
09.30	**O167 - Micheli Laura** Use of gellan gel for the cleaning of graphic artworks: the case study of Diana Scultori engraving	**O176 - Reibetanz Uta** Multifunctional LbL-microcarriers as a specific drug delivery system
09.50	**O168 - Bogri Panagiota** Structure, dynamics and mechanical properties of thermo-sensitive core-shell microgels	**O177 - Salis Andrea** What is the new frontier of Hofmeister phenomena? Specific buffer effects found for lysozyme adsorption onto SBA-15 mesoporous silica
10.10	Coffee break	Coffee break
10.40	**O169 - Nigro Valentina** Phase transitions of colloidal suspensions of multi-responsive microgels	**O178 - Agnely Florence** Injectable hyaluronic acid gels containing liposomes: formulation, characterization and evaluation for the treatment of inner ear diseases
11.00	**O170 - Bayati Solmaz** Mixed Micelles of Oppositely Charged PNIPAAM Diblock Copolymers	**O179 - Montis Costanza** Mechanism of action of nanostructured antibiotics: interaction pathways with model membranes and model bacteria
11.20	**O171 Auernhammer Günter K.** Microrheology of Microgel layers at the Water/Oil Interface	**O180 - Akhlaghi Parinaz** Phytantriol Cubosomes For Palmitoyl Peptide Delivery
11.40	**O172 - Schmitt Julien** Exploring the phase behaviour of anisotropic core-shell silica/PNIPAM particles	**O181 - Pereno Valerio** Cell-microbubble interaction in ultrasound mediated drug delivery: using giant vesicles as models to quantify bio-effects
12.00	**O173 - Kim Jin Woong** Novel hydrophobically associative nanocolloids for reversible sol-gel transition of aqueous fluids	**O182 - Piradashvili Keti** Biodegradable protein nanocarriers synthesized in inverse miniemulsion for the development of nanovaccination strategies
12.20	**O174 - Stalder Etienne** Mechano-sensitive Liposome Containing Hydrogels: Towards an Intra Articular Drug Delivery System	**SK17 - Brocca Paola** Structural response of biopolymer coated delivery-nanoparticles to interaction with synthetic and cellular model mucus.
12.45	Lunch	Lunch

PROGRAM
8 SEPT THURSDAY

ECIS 2016

SESSION VI
Odeion hall

08.45	**SK18 - Nicolai Taco** Effect of particle morphology on the structure and stability of particle stabilized water in water emulsions
09.10	**O183 - Corti Mario** A drop Fabry Perot interferometer for the study of liquid-liquid interfaces: surface dynamics close to the fluid-gel transition
09.30	**O184 - Lyklema Hans** Entropy studies in interface science: ageless tool.
09.50	**O185 - Vilanova Garcia Neus** Supramolecular colloids as emulsion stabilizers
10.10	**Coffee break**
10.40	**O186 - Fossum Jon Otto** Mechanics and Rheology of Pickering drops Probed by Electric Field Induced Stress
11.00	**O187 - Erné Ben** Physical Chemistry of Water-in-Water Pickering Emulsions
11.20	**O188 - Ioannidis Marios** Ethyl Cellulose Nanoparticles: From Colloidal Stability to Pickering Emulsification
11.40	**O189** **van Duijneveldt Jeroen** Steady-state droplet size in Pickering emulsions
12.00	**O190 - Sagisaka Masanobu** Aggregation behavior and surface tension lowering ability of anionic surfactants having highly-methylated tails
12.20	**O191** **Shahidzadeh Noushine** Thin film forces during salt crystallization in confinement
12.45	**Lunch**

14.00 - 20.00

Symposium honoring
Conxita Solans
Odeion hall

OPTIONAL TOUR

Villa Adriana

Ancient Ostia

Colosseum and Roman Forum

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9 SEPT FRIDAY

POST CONFERENCE TOURS FOR ALL PARTICIPANTS

Basilica of St. Paul and Vatican Museums by night

16.30

ECIS 2016

PROGRAM FRIDAY SEPT 9

08.30 Ferroni, Langmuir, YITP, Poster prizes

Aula Magna

09.00 **Magdassi Shlomo** chair **Debora Berti**
PL6 - Nanomaterials for functional and 3D printing

09.45 Terrace Aula Magna **Coffee break**

SESSION I
Aula Magna

10.15 **SK19 - Stepanek Petr**
Controlling interaction of polymer nanoparticles with biological media

10.40 **O192**
Gradzielski Michael
Building Functional Surfactant/ Chitosan Complexes with Chemically Modified Chitosan

11.00 **O193 - Moreno Angel J.**
Single-Chain Polymer Nanoparticles: Models for Intrinsically Disordered Proteins and Soft Glass-Formers

11.20 **O194 - Mahmoudi Najet**
H/D substitution large effect on protein phase behaviour and the ELCS

11.40 **O195 - Kocherbitov Vitaly**
The nature of non-freezing water in biopolymer solutions

12.00 **O196 - Vlasov Andrey**
Surfactant and Polymer Components as Modifiers of Dielectric and Non-Linear Optical Performance of Aqueous Nanocarbon Suspensions

SESSION II
T1 - Tensil structure

SK20
Di Leonardo Roberto
The 3D dynamics of wall-entrapment in swimming bacteria

O197 - Söderman Olle
MRI and theoretical studies of distribution and transport of ions in a model system of articular cartilage

O198 - Bansal Vipul
Biomimetic nanozyme sensors: from molecules to bacteria to cancer cell detection

O199 - Ferri Fabio
Combination of Low Angle Elastic Light Scattering (LAELS) and Multi-Wavelength Turbidimetry (MWT) for the analysis of biopolymers filamentous networks

O200 - Noskov Boris
Phase transitions in DNA/surfactant adsorption layers

O201 - Fratini Michela
Study of the biomineralization process using a multi-scale approach

12.20 Concluding Remarks

12.40 Lunch

PROGRAM
9 SEPT FRIDAY

ECIS 2016

08.30 Ferroni, Langmuir, YITP, Poster prizes

Aula Magna

09.00 **Magdassi Shlomo** chair **Debora Berti**
PL6 - Nanomaterials for functional and 3D printing

09.45 Terrace Aula Magna **Coffee break**

SESSION III
T2 - Tensil structure

10.15 **SK21 Dabkowska Aleksandra**
Responsive nanostructured films: non-lamellar lipid liquid crystalline phases with embedded polymer microgels

10.40 **O202 - Voets Ilja**
Controlling ice crystal growth with ice-binding proteins

11.00 **O203 - Maric Selma**
Lipoprotein structure dependency on lipid cargo and exchange dynamics - implications for atherosclerosis development

11.20 **O204 - Lattuada Marco**
Protein Amyloid Fibrils as Template for the Synthesis of Silica NanoFibers and their Use in the Preparation of Superhydrophobic surfaces

11.40 **O205 - Vanin Aleksandr**
The impact of water on the local electric potential of spherical ionic micelles by MD simulation

12.00 **O206 - Giavazzi Fabio**
Simultaneous characterization of rotational and translational diffusion of anisotropic particles by optical microscopy

SESSION VI
Odeion hall

10.15 **SK22 - Eiser Erika**
Light driven colloidal aggregation at a liquid-liquid interface

10.40 **O207 - Massiera Gladys**
Continuous Droplet Interface Crossing Encapsulation (cDICE): artificial cells and capsules

11.00 **O208 - Ghaemi Ali**
Mechanical behaviour of microcapsules and their rupture under compression

11.20 **O209 - Viola Ilenia**
Catalytic self-propulsion of supramolecular capsules to modulate the elastic turbulence in a microfluidic regime

11.40 **O210 - Kumar Abhijeet**
Cationic vesicle transport and deposition on anionic porous substrates

12.00 **O211 Korkmaz Gulnur Sehnaz**
Hyperthermia Application of Magnetic Nanoparticles Embedded Nanostructured Lipid Carriers (NLC)

12.20 Concluding Remarks

12.40 **Lunch**

TOPICS

P1 - Self-Assembly

P2 - Interfaces, Membranes, Emulsions and Foams

P3 - Colloidal Dispersions and Colloidal Stability

P4 - Polymer Solutions, Gels and Phase Behaviour

P5 - Micro- and Nanostructured Materials

P6 - Biomaterials and Medical Aspects

POSTER SESSIONS

SESSION A MONDAY 5 SEPT 18.00 - 20.00	SESSION B WEDNESDAY 7 SEPT 17.20 - 19.30
P1.1 - P1.86	P2.111 - P2.141
P2.1 - P2.110	P3.1 - P3.73
P6.1 - P6.76	P4.1 - P4.62
	P5.1 - P5.105

The presenters are invited to keep the posters exposed the whole day of the session and the day after:
Poster session A - from Monday 9:00 to Tuesday 19:30
Poster session B- from Wednesday 9:00 to Thursday 19:30

Self-Assembly

P1.1	Campbell Richard	Rich interfacial films formed from aggregates in α-cyclodextrin solutions
P1.2	Reiser Beate	Ligand-solvent interaction driven self-assembly of ultrathin gold nanowires
P1.3	Munaò Gianmarco	Phase diagrams of Janus dimers
P1.4	Daniele Maddalena	Designing peptide-based biomaterials: structure and related properties
P1.5	Bomboi Francesca	Re-entrant DNA gels
P1.6	Fernández Mariana	Morphological changes in gemini surfactant´s self-assembly induced by coordination with metallic salts
P1.7	Koitani Sachi	Anomalous formation of the rectangular phase by the GmBOnGm-type triblock copolymer
P1.8	Szczęch Marta	Synthesis of polyplexes as nanocarriers for plasmid DNA delivery systems
P1.9	Carducci Federica	SAXS Analysis of Stability and Anisotropic Properties of G/GMP Hydrogels
P1.10	Zumpano Rosacelste	Self-Assembly of Sodium Lauryl Ether Sulfates
P1.11	Nouhi Shirin	Fixing colloidal particles at solid/liquid interfaces using Moringa oleifera seed protein as 'glue'
P1.12	Kaczmarek Daria	Controlling Non-equilibrium Aggregation of Polyelectrolyte Complexes
P1.13	Ali Abdullah	Mucoadhesion - A Prerequisite or a wwConstraint in Nasal Drug Delivery?
P1.14	Ben Abdelkader Maroua	Synthesis and emulsifier properties of a new bio-sourced surfactant based on isosorbide
P1.15	Baâzaoui Mondher	Surface-active properties of cationic and neutral amphiphilic beta-cyclodextrins substituted with one or seven alkylamino chains
P1.16	Nakagawa Yasuharu	The effect of solvent on the hydrogel composed of a hydrogenated lecithin and fatty alcohol
P1.17	Yalcinkaya Hacer	Formation and stability control of well-defined vesicles and their fixation by polymerization
P1.18	Cardelli Chiara	Universal criteria for designability of heteropolymers
P1.19	In Martin	Pre-transitional structuration of aqueous solutions of ionic liquid based catanionics
P1.20	Wlodek Magdalena	Effect of surface properties of the cushion material on supported lipid bilayer formation

P1.21	Xiao Zi-Bing	Solubilization effects of a novel hydrotropic agent on perfluorooctane sulfonate salts with high Krafft points
P1.22	Portnaya Irina	Mixed kappa/beta caseins associates as a model to Milk casein micelle
P1.23	Segal Merav	Enzyme-responsive nanocarriers with tunable release rates
P1.24	Tojinbara Toru	Interfacial properties of cationic lysine-based surfactants
P1.25	Mani Ethayaraja	Self-assembly of oppositely charged patchy and isotropic colloids binary mixture
P1.26	Oliviero Rossi Cesare	Effect of Asphaltene Structure on Association and Aggregation with oleic acid using Molecular Dynamics
P1.27	Pons Ramon	Chiral Cyclobutane β-Amino Acid-Based Amphiphiles: Influence of cis/trans Stereochemistry on Condensed Phase and Monolayer Structure.
P1.28	Suchá Lucie	Dissipative particle dynamics study of the amphiphilic functionalized polymer dendrimers and their interactions with the linear block copolymers in dilute solutions
P1.29	Prado Enora	Control of peptide nanotube diameter by the condensation of acid-basic molecule
P1.30	Månsson Linda	Synthesising thermoresponsive colloidal molecules
P1.31	Sakai Hideki	Preparation of Novel Oil-in-Oil Emulsions Stabilized by Ion Complexes
P1.32	Ogura Taku	Phase Behavior, Hydration, and Self□assembled Structures of Aqueous Alcohol Ethoxylate and Methyl Ester Ethoxylate
P1.33	Suzuki Taiki	Development of a novel amphiphilic lophine dimer
P1.34	Jurásek Miroslav	Self-Assembly of Rod-Like Patchy Particles
P1.35	Jidheden Claes	Single microgels in core/shell equilibrium: A novel method for limited volume studies
P1.36	Giustini Mauro	Anthracyclines gels: chemical structure and functional behaviour
P1.37	Girard Luc	Model for phase equilibria in micellar solutions of non-ionic surfactants in the presence of polyoxometalates
P1.38	Iimura Ken-ichi	Control of self-assembly in Langmuir monolayers toward fabrication of template surfaces for vertically grown structures
P1.39	Kalaycioglu Gokce Dicle	Preparation of Self-Assembled Colloidal Microcapsules by Using Solid Lipid Nanoparticles

P1.40	Yamada Taihei	Control of molecular disassembly of amphiphiles with lipophilic ion pair by electrostatic repulsion in non-polar solvents
P1.41	Jones Elizabeth	Cationic diblock copolymer spheres as model templates for the production of hollow silica nanoparticles
P1.42	Ghosh Udita Uday	Effect of electric field on crack formation in colloidal films
P1.43	Molchanov Viacheslav	Growth and branching of cylindrical flexible micelles of ionic surfactant tuned by salts
P1.44	El Achouri Mohammed	Interaction of an anionic azo-dyes with mono and gemini cationic surfactants in the series of ammonium bromides
P1.45	Guo Yong	Reversible encapsulation of large colloids by oppositely charged small colloids
P1.46	Emelyanova Kseniia	Bilayer perforations and self-assembly of spatial networks in solutions of ionic surfactants
P1.47	Sakamoto Kazutami	Micro-Calorimetric Study on the Structural Transition in Micellar Solution Phase
P1.48	Wang Dongsheng	Red-light-responsive Supramolecules based on Host-guest Interaction between Tetra-ortho-methoxy-substituted Azobenzene and β-cyclodextrin: Design and Application
P1.49	Mańko Diana	Adsorption and aggregation activity of sodium dodecylsulfate and rhamnolipid mixture
P1.50	Roger Kevin	Controlling water evaporation through self-assembly
P1.51	Buzhor Marina	Spectrally active smart micellar nanocarriers
P1.52	Ronti Michela	Low-temperature behavior of the dipolar hard sphere fluid
P1.53	Szabelski Paweł	Theoretical modeling of the surface-confined self-assembly of functional molecules with directional interactions
P1.54	Medoš Žiga	Micellization of long-chain carboxylates in aqueous solutions
P1.55	Wu Cheng	Self-organization of rod-like viruses induced by multivalent counterions
P1.56	Stoyanov Stefan	Aggregation onset and adsorption layer properties of T2-C8: pH dependancy
P1.57	Stoyanov Stefan	Four-antennary oligoglycines and their potential as capturing agents for lipopolysaccharides in aqueous media
P1.58	Vanin Aleksandr	Self-organization phenomena and phase behaviour of aqueous and aqueous - salt solutions containing dialkylimidazolium ionic liquids with halide or amino acid anions

P1.59	Dordovic Vladimir	Temoresponsive characterization of nanoparticles of polyoxazolines with cobalt bis(dicarbollide) anion
P1.60	Mirgorodskaya Alla	Supramolecular systems for enhancing solubility of new arylquinolinones in aqueous solution
P1.61	Mirgorodskaya Alla	The solubilization of hydrotropic additives in micellar solutions of cationic surfactants
P1.62	Borowko Malgorzata	Self-assembly of hairy disks in two-dimensional films - effects of ligand mobility
P1.63	Totland Christian	The co-adsorption of alcohol and surfactants on mineral surfaces: Adsorption sites and aggregate structures
P1.64	Unsal Hande	Design of bottlebrush copolymer based micelles for drug delivery applications
P1.65	Sebastiani Federica	Alkylglycoside surfactants with oligomeric head-groups: investigation of self-aggregation and its implications for future applications
P1.66	Radavidson Harisoa	Design and mechanical characterization of a plant primary cell wall analogue : cellulose/xyloglucan multilayered capsules
P1.67	Di Meo Chiara	Self-assembling polysaccharide-based nanohydrogels for drug delivery applications
P1.68	Cunningham Victoria	Synthesis, characterisation and Pickering emulsifier performance of poly(stearyl methacrylate)-poly(N-2-(methacryloyloxy)ethyl pyrrolidone) diblock copolymer nano-objects via RAFT dispersion polymerisation in n-dodecane
P1.69	Cunningham Victoria	Poly(glycerol monomethacrylate)-poly(benzyl methacrylate) diblock copolymer nanoparticles via RAFT emulsion polymerisation: synthesis, characterisation and interfacial activity
P1.70	Carstensen Hauke	Self-assembly in a colloidal system with tunable magnetic interactions
P1.71	Kutz Anne	Improving Photocatalytic Activity through Electrostatic Self-Assembly: Polyelectrolyte Assemblies for Light Energy Conversion
P1.72	Rogier Faranaaz	Colloidal particels at an oil/water interface with an external electric field
P1.73	van Oostrum Peter	Biomimetic folding particle chains
P1.74	Kanie Kiyoshi	Organic-inorganic hybrid dendrimer with a CdS nano-core: The liquid-crystalline structure-dependent photoluminescence behavior
P1.75	Andreozzi Patrizia	Supramolecular nanoparticles based on phosphate polyamine interactions for the encapsulation of anti cancer drugs

P1.76	Rault Damien	Peptide nanotube self-assembly in presence of charged surfactant
P1.77	Meszaros Robert	Effect of the charge regulation behavior and chemistry of polyelectrolytes on their nonequilibrium complexation with oppositely charged surfactants
P1.78	Chauhan Vinay	Carbonate based Nonionic Surfactants for Smart Cleaning of Works of Art
P1.79	Xing Zhongyang	Micro-rheology in DNA Hydrogels
P1.80	Rzysko Wojciech	Phase behavior of decorated soft disks in thin films
P1.81	Honold Tobias	Plasmonic Honeycomb Structures through Self-Assembly
P1.82	León Chaves Marta	Synthesis of dimeric surfactants derived from bile salts for preparation of dye sensitizers for solar cells
P1.83	Yoneda Juliana	Self-Assembly of Detergent-Solubilized Na,K-ATPase
P1.84	Banik Meneka	Confinement induced self assembly and transfer of ordered colloidal particle array
P1.85	Ramos M. Luísa	Nanostructuring 8-hydroxyquinoline-5-sulfonate and trivalent metal ions in the presence of surfactants for optoelectronics and sensing
P1.86	Krystyna Prochaska	Study of interfacial properties of two-component DPPC–silsesquioxane nanoparticles Langmuir monolayers

Interfaces, Membranes, Emulsions and Foams

P2.1	Moehwald Helmuth	A high throughput method to determine the selectivity of ion phase transfer in multi-component chemical systems: towards predictive modelling of extraction
P2.2	Samec Zdeněk	Kinetics and molecular mechanism of ion transfer across the water-organic solvent interface
P2.3	Li Chunxiang	Modification of Sodium Lignosulfonate Acid Using Polyethers into Surfactants
P2.4	Redeker Christian	Surface-confined structure and interactions of lipopolysaccharide layers
P2.5	Kurihara Yuya	Molecular Simulation of Oxygen Permeation Properties through Ionomer on Pt Surface
P2.6	Michna Aneta	Revealing the formation and stability of fluorescently-labeled poly(ethylene imine) monolayers on mica via DLS and electrokinetic methods
P2.7	Mileva Elena	Interfacial Layer Properties of Nonionic/Cationic Surfactants Mixtures
P2.8	Liascukiene Irma	Bubble stabilization by particles: a microfluidic study

P2.9	Rymaruk Matthew	Bespoke contrast-matched diblock copolymer nanoparticles enable the rational design of highly transparent Pickering double emulsions
P2.10	Ugur Saziye	Study of Film Formation From PS Latex/Ag-NPs Composites Via Fluorescence Technique
P2.11	Juhasz Adam	Kinetics and thermodynamics characterization of the interactions between kynurenic acid and human glutamate receptor fragments by surface plasmon resonance studies
P2.12	Mańko Diana	The comparison of adsorption properties of biosurfactant with classical anionic surfactant mixtures and biosurfactant with non-ionic ones
P2.13	Angeloni Livia	Oxidation plasma treatment of fluorocarbon ultrathin films for cardiovascular applications
P2.14	Ferrari Michele	Amphiphobic coatings for protection in marine environment
P2.15	Nakahara Hiromichi	Binary interactions of a tetrazine derivative with biomembrane constituents at the air-water interface
P2.16	Ramanavicius Arunas	Conducting polymers in the design of glucose biosensors
P2.17	Narkiewicz-Michalek Jolanta	An influence of α-tocopherol on physico-chemical properties of CTAB solutions
P2.18	James Emily	The effects of interfacial shear elasticity on droplet spreading dynamics
P2.19	Capocefalo Angela	Biomimetic giant vesicles electroformation: biophysical evidences
P2.20	Krasowska Marta	Precursor Films from Ionic Liquids
P2.21	Bonomo Matteo	Ex-situ analysis of the electrochemical interface NiOx/organic electrolyte with XPS under different
P2.22	Rinaldi Federica	The effect of chitosan on the thermodynamic properties of mixed Chol/SPAN-Tween20 monolayers
P2.23	Rinaldi Federica	Properties of nanoemulsions and potential applications as nanodelivery systems
P2.24	Pham Quoc Dat	Molecular dynamics and barrier property of stratum corneum in the presence of different molecules named as penetration enhancers
P2.25	Boström Mathias	The influence of gas and ions on melting of ice within porous materials
P2.26	Shlyapov Rustam	The selective adsorption of collectors' mixtures on Py-Cu-Pb-Zn ore
P2.27	Arjmandi-Tash Omid	Blood droplet spreading/imbibition over porous substrates: complete and partial wetting

P2.28	Eslava Valeria	Effect on the surface tension of bovine serum albumin in the presence of water soluble resorcin[4]arenes
P2.29	Shkirskaya Svetlana	Electrotransport phenomena and hydration effects of nanocomposites based on Nafion membrane and silica
P2.30	Lee Yuh-Lang	Preparation of mixed Langmuir-Blodgett films of poly(3-hexylthiophene)/octadecylamine/ glucose-oxidase for glucose sensing applications
P2.31	Homs Maria	A novel approach to obtain O/W nano-emulsions at constant temperature by a low-energy method without phase inversion
P2.32	Eriksson Emma	Effects of Ubiquinone-10 (Q10) in lipid membranes
P2.33	Sikora Elzbieta	Study of emulsification properties of rapeseed oil alcoholysis products
P2.34	Hussein Sheik Abdulkadir	Fluid transport in free liquid films
P2.35	Werner Arthur	Synthesis of surfactant free nanolatex using Cellulose Nanocrystals as Pickering particles template
P2.36	Chen Chieh-Wen	Surface treatment on polyimide by an atmospheric pressure plasma jet for electroless copper plating
P2.37	Ahmed Gulraiz	Equilibrium of Droplets on Deformable Substrate: Influence of Surface Forces and Surface Deformation
P2.38	Guzmán Eduardo	Emulsions containing essential oils: eco-friendly aqueous formulations of potential biopesticides for insect pest control
P2.39	Benková Zuzana	Wetting behavior of PEO-grafted silica surface in presence of free homopolymers
P2.40	Kairaliyeva Talmira	The principles of obtaining of micro- and nanocapsules based on Pickering emulsions
P2.41	Saker Salima	Use of the electrochemical impedance in the study of the inhibition corrosion of the carbone steel
P2.42	Tokarczyk Karolina	Combining surface plasmon resonance and quartz crystal microbalance to determine hydration of protein monolayers
P2.43	Philippova Olga	Perfluorocarbon emulsions for dual-modal magnetic resonance imaging
P2.44	Kafle Ananda	Study on the Phase Behavior of Phospholipids in the Presence and Absence of Phytosterols

P2.45	Botin Denis	Electro-kinetic experiments with an improved integral super-heterodyne laser Doppler velocimetry
P2.46	Breitenbach Jan	Drop impact on hot surfaces: Effect of surface morphology
P2.47	Kovalchuk Nina	Effect of soluble surfactants of kinetics of liquid bridges and formation of satellite droplets
P2.48	Kovalchuk Nina	Wetting properties and kinetics of spreading of surfactant solutions
P2.49	Aochi Joji	Molecular dynamics study on effects of surface interaction on inomer thin film properties: morphological and proton transport properties
P2.50	Schuster Fabian	The design of inkjet inks suitable for the manufacturing of foamed polyurethane materials
P2.51	Khomutov Gennady	Langmuir monolayers and Langmuir-Blodgett films of functional amphiphilic amines and their interfacial complexes with colloid nanoparticles and polyelectrolytes
P2.52	Orczyk Marta	The influence of steroidal and triterpenoid saponins on an outer leaflet model of human erythrocytes membrane
P2.53	Derzsi Ladislav	Glassy flows in microchannels with structured rough surface
P2.54	Vereecke Guy	Kinetics of chemical etching in nano-confined volumes
P2.55	Al-Alwani Ammar	Features of InSb QDs-arachidic acid monolayers formation
P2.56	Al-Alwani Ammar	Formation of CdSe/CdS/ZnS quantum dots with 4'-n-octyl-4-p-cyanobiphenyl Langmuir films at elevated temperatures
P2.57	Koroleva Marina	Modelling of Pickering emulsion stabilization
P2.58	Koroleva Marina	Nanoemulsion stability and degradation
P2.59	Butkhuzi Tinatin	Study of the influence of ionic additives on the water structure confined in AOT and Brij-30 reverse micelles
P2.60	Fischer Steffen B	Stress development during drying of particulate films made from capillary suspensions
P2.61	Filippi Daniele	Deviation of viscous drops at chemical step
P2.62	Joseph Cécile	Pickering emulsions stabilized by solid vegetal particles
P2.63	Auernhammer Günter K.	Dynamic receding contact angles: SPH simulations vs. experiments
P2.64	Santini Eva	Correlation between the emulsions and foams stability and the drop/bubble coalescence.
P2.65	Shinkarenko Oksana	Influence of naphthalene on the arachidic acid monolayers formation

P2.66	Shinkarenko Oksana	The influence of the number of hydrogen atoms attached to naphthalene molecules on the potential barrier height
P2.67	Muller François	Food Grade Monoglyceride-Based Cubosomes In The Presence Of Laponite Investigated By Means Of Cryogenic Transmission Electron Microscopy
P2.68	Hofmann Matthias	The role of surface viscosity in the escape mechanism of the stenus beetle
P2.69	Iwamatsu Masao	Line tension and morphology of a droplet placed on a spherical substrate and in a spherical cavity
P2.70	Montis Costanza	Trapping Vesicles with Microfluidics: probing interactions of lipid membranes with nano-systems
P2.71	Come Benedetta	Interactions of amino acid-based surfactants with cell membranes: a study using GUV model
P2.72	Dalstein Laetitia	Molecular structure in thin wetting films studied by linear and non-linear vibrational spectroscopy techniques.
P2.73	Emelyanenko Kirill	The wetting behavior of hydrocarbon liquids on water with accounting for water solubility
P2.74	Bhagavathi Kandy Sharu	Microstructure development and rheological characteristics of highly concentrated emul-sion during emulsification
P2.75	Kononenko Natalia	Modified perfluorinated sulfocationic membranes: properties vs structure
P2.76	Zhao Yani	The denaturation of knotted proteins at air-water interfaces
P2.77	Oka Kohei	Permeation of substances into the stratum corneum model membrane on an ATR prism for FTIR analysis
P2.78	K Vasantham Shreyas	Critical casimir forces between polymer surfaces
P2.79	Oikonomou Evdokia	Investigation of cellulose nanocrystal - surfactant vesicle interactions for textile applications
P2.80	Schmitt Michael	Contact angle measurement and statistical contact angle analyses
P2.81	Raudino Martina	Removal mechanism of polymeric films with nanostructured fluids: effect of polymer molecular weight and polydispersity
P2.82	Alison Lauriane	Long-term stable emulsions prepared from electrostatically chitosan-modified silica nanoparticles
P2.83	Alison Lauriane	Network formation in chitosan-modified silica suspensions relevant for emulsion stability

P2.84	Tummino Andrea	Spread films of human serum albumin at the air−water interface: optimization, morphology and durability
P2.85	Tummino Andrea	Polyelectrolyte/surfactant films spread from neutral aggregates
P2.86	Kang Ho-Cheol	Properties and synthesis of alkyl dicarboxylic acid derivatives for lubricants
P2.87	Pozharov Mikhail	Effect of glycine additives on mesomorphism of sodium dodecylsulfate aqueous solutions
P2.88	Wnętrzak Anita	The effect of antimalaral drug – cyclosporin A on model biological membranes
P2.89	Braunschweig Björn	Molecular self-assembly and indentation of octadecylphosphonic acid monolayers on aluminium oxide surfaces
P2.90	Patrykiejew Andrzej	Wetting of non-additive symmetrical mixtures on a wall
P2.91	Mitsou Evgenia	Development and in vitro evaluation of water-in-oil microemulsions for the intestinal delivery of hydroxytyrosol
P2.92	Cooperstein Ido	3D printing of oil-in-water emulsions for conductive objects
P2.93	Filippov Anatoly	Novel nanocomposites MF-4SC/halloysite/Pt (Fe) and new method of membrane characterization
P2.94	Filippov Anatoly	Negative retention of dyes in aqueous alcohol mixtures by nanofiltration membranes on the base of PTMSP and PMP
P2.95	Langmaier Jan	Ion transfer voltammetry of protonized biguanides at a polarized liquid-liquid interface
P2.96	Chang Fuqiang	Self-assembly of colloidal dumbbell particles at the oil-water interface
P2.97	Goibier Lucie	Partial coalescence induced by the addition of low molecular weight surfactants in O/W emulsions stabilized by sodium caseinate: the role of interfacial crystallisation
P2.98	Alam Ehsanul	Imbibition of water into heat treated polydimethylsiloxane substrates
P2.99	Mangiapia Gaetano	KWS-1 high-resolution small-angle neutron scattering instrument
P2.100	Alves Ana	Doxorubicin and daunorubicin interplay with lipid monolayers: the importance of lipid composition
P2.101	Mishra Himanshu	Hydrogen-bonded Percolation Networks Modulate Hydrophobic interactions
P2.102	Mareček Vladimír	Proton transfer across a liquid-liquid interface facilitated by phospholipid interfacial films

P2.103	Amerkhanova Shamshiya	The Role of sorption processes of collectors in the enrichment of polymetallic ores
P2.104	Slastanova Anna	Centipede and comb co-polymers at air-water interface: interactions with surfactants
P2.105	Tovstun Sergey	What makes AOT reverse micelles spherical?
P2.106	Boettcher Sandra	Quillaja saponin: An emulsifier unlike common low-molecular weight surfactants
P2.107	Antonello Alice	Synergic combination of miniemulsion and solvothermal routes: exploiting unconventional conditions for the synthesis of highly crystalline transition metal ferrites
P2.108	Tseng Wenjea	Macroporous Composite Foams from Aqueous Gelcasting of Particle-Stabilized Emulsions
P2.109	Szczes Aleksandra	Surface tension behaviour and emulsifying properties of natural surfactants extracted from Sapindus mukorossi and Sapindus trifoliatus pericarp
P2.110	Jarek Ewelina	Influence of synthetic polymers (vinyl and acrylic resins) used in conservation of mural painting on physicochemical properties of paint layers.
P2.111	Ungarato Rafael	The use of low field NMR to evaluate rocks wettability for enhanced oil recovery (EOR)
P2.112	Lebedeva Tatiana	Disjoining pressure in a small droplet on a charged or neutral particle in the frameworks of the gradient DFT
P2.113	Semenov Sergey	Numerical simulations of a 2D dispersed system of droplets and bubbles
P2.114	Yang Kai-Chieh	Effect of Particle Size and Surface Hydrophobicity on Critical Pinning Concentration of Coffee-Ring Formation
P2.115	Fameau Anne-Laure	Smart Non-Aqueous Foams From Lipid based Oleogel
P2.116	Reggente Melania	Conducting Polymers as candidate material for artificial muscles: an EC-AFM study
P2.117	Uali Aitolkyn	The active carbons modified by industrial wastes in process of sorption concentration of toxic organic compounds and heavy metals ions
P2.118	Lind Tania	Compositional characterization of biosynthetically prepared phospholipids for the development of improved model cell membranes
P2.119	Xenakis Aristotelis	Antimicrobial effect of olive oil microemulsions with encapsulated nisin and essential oils: Formulation, structure and efficacy
P2.120	Zozulya Alexey	Particle shape transformation in colloidal crystals under sintering conditions

P2.121	Rodriguez Parra Flores Johanna	A new unified method to characterize beer foams in terms of foamability, foam stability, drainage and cell structure
P2.122	Loglio Giuseppe	Dynamic properties of Span-80 adsorbed layers at paraffin-oil/water interface: capillary pressure experiments under low gravity conditions
P2.123	Snow Tim	Interactions between polymer brushes in ionic liquids
P2.124	Riegger Benjamin	Biobased and synthetic polymer-nanoparticles as functional materials for wastewater treatment and sensing
P2.125	Glukhovskoy Evgeny	Features of formation copper nanoparticles monolayers in a mixture of polyvinylpyrrolidone and arachidic acid
P2.126	Arnaudov Luben	A scalable platform for functional nanomaterials via bubble bursting
P2.127	Di Napoli Benedetta	Structural characterization of peptides at the air-water interface
P2.128	Aimable Anne	Selective modification of inorganic surfaces with fluorinated molecules using a Pickering emulsion template
P2.129	Kleijn Mieke	Formation of a coacervate film across the liquid-liquid interface - experiments and self-consistent field modelling
P2.130	Alp Gokce	Oil/Water Separation by Using Catanionic Surfactant Mixtures
P2.131	Alp Gokce	Adsorption of Nanocarriers to Pulmonary Mucus Membrane
P2.132	Sthoer Adrien	A vibrational sum frequency spectroscopy study of ion specific interactions between monovalent ions and fatty acid Langmuir monolayer
P2.133	Issayeva Asem	Study of Insulin delivery systems by use of water-in-oil-in-water double emulsion technique
P2.134	Issayeva Asem	Adsorption of triclosan and its harmful by-products by activated carbon
P2.135	Hill Christopher	Properties and colloid science of fire-fighting foams
P2.136	Patel Ashok	Preparation and characterization of novel gel-in-oil-in-gel type structured emulsions
P2.137	Bohinc Klemen	Colloid Adsorption at Charged Surfaces
P2.138	Truzzolillo Domenico	Structure and rheology of particles with tunable charge density at the air-water interface

P2.139	Santos Silva Pedro	Oscillating membrane emulsification for controlled droplet production
P2.140	Kim Yong-Jin	Oil-water emulsion separation via an electro-coagulated hydrocylone
P2.141	Krystyna Prochaska	Study of two component monolayers formed by polyhedral oligomeric silsesquioxanes and carbon nanotubes at the air water interface and thin films on the solid substrate

Colloidal Dispersions and Colloidal Stability

P3.1	Avvisati Guido	Novel route to colloidal photonic crystals via complex building blocks
P3.2	Gisin Joshua	Synthesis of micron-sized, highly crosslinked polystyrene particles via dispersion polymerization
P3.3	Costa Carolina	Pulp Dissolution and Stability in Alkali-Based Solvents
P3.4	Buttinoni Ivo	Colloidal monolayers under steady and oscillatory shear at the liquid-liquid interface
P3.5	Cao Tianchi	Aggregation of colloidal particles in the presence of multivalent coions: the inverse Schulze−Hardy rule
P3.6	Chiappisi Leonardo	Cononsurfactancy: a new phenomenon in colloid science?
P3.7	Farraj Yousef	Copper particles formation by self reduction of copper complexes for printing flexible and 3D conductive patterns
P3.8	Garting Tommy	Concentrated protein solutions investigated by DLS-based tracer microrheology
P3.9	Elazar Inbar	The influence of the health of the cow on milk micelles
P3.10	Rubio Ramón G.	Evaporation of nanosuspension droplets
P3.11	Pinheiro Paula	SERS-active magnetic sorbents for removal and optical detection of penicillin G
P3.12	Heidt Sabrina	Experimental final states in a density matched, polydisperse hard sphere polymer mixture
P3.13	Kobayashi Motoyoshi	Initial deposition rate of colloidal silica in unsaturated sand column
P3.14	Kobayashi Motoyoshi	Yield stress of the suspension of silica particles with lysozymes
P3.15	Kawamura Ayaka	Fabrication of structural color materials from core-shell particles having melanin-like shell layers
P3.16	Ocwieja Magdalena	Oxidative dissolution of silver nanoparticles – experimental studies and new theoretical model
P3.17	Kohri Michinari	Biomimetic structural color via assembly of melanin-like polydopamine particles

P3.18	Koos Erin	Fractal dimensions of capillary force induced particle networks
P3.19	Kosmulski Marek	Study of aggregates in dispersions of iron oxides by light scattering and by TEM
P3.20	La Mesa Camillo	Polymer Wrapping Around Nano-Particles.
P3.21	Lattuada Marco	Deformation of Fractal Clusters under Mixed Shear Flows
P3.22	Lazzari Stefano	Growth and agglomeration rates regulate colloid fractal dimension
P3.23	Lim JongChoo	Effect of adsorption of fluorinated surfactant on the wetting property of CaCO3 nanoparticles
P3.24	Loosli Frédéric	Agglomeration mechanisms and thermo-dynamic properties of TiO2 nanoparticles interacting with natural organic matter: an isothermal titration calorimetry study
P3.25	Magi Meconi Giulia	Adsorption and Desorption Behavior of Ionic and Nonionic Surfactants
P3.26	Malinenko Alla	Charge properties and size of small colloids by electroacoustics: a benchmark system for calibration
P3.27	Crassous Jérôme	Phase behaviour, dynamics and directed self-assembly of soft repulsive bowl-shaped colloids
P3.28	Mendoza Carlos I.	Effective temperatures and the breakdown of the Stokes-Einstein relation for particle suspensions
P3.29	Thies-Weesie Dominique	Synthesis of colloidal rods and (preliminary) stacking experiments
P3.30	Midea Cuccovia Iolanda	Interactions of an alkylated antimicrobial pep-tide, BP100C16, with Phospholipid Vesicles
P3.31	Lin Weifeng	Normal and shear forces between surfaces bearing stabilized liposomes
P3.32	Muller François	Internally Nanostructured Raspberries
P3.33	Szymula Marta	Antioxidant activity of phenolic acids in the nonionic micellar system
P3.34	Narkiewicz-Michalek Jolanta	Studies of Arenediazonium Ions Behavior in the Complex Matrix
P3.35	Poggi Giovanna	Calcium hydroxide nanoparticles from solvothermal reaction for the deacidification of degraded waterlogged wood
P3.36	Niu Ran	A transient amorphous solid formed from low density aqueous charged sphere suspen-sions
P3.37	Oliviero Rossi Cesare	Investigations of Structural and Rheological Properties at high and low temperature of bitumen for warm recycling technology

P3.38	Pavlovic Marko	Enhancing colloidal stability of layered double hydroxides by copolymer adsorption
P3.39	Penkavova Vera	The effect of surface quality on the flow of aqueous kaolin suspensions
P3.40	Petrov Mikhail	Electro-optical research of surface conductivity of colloid particles
P3.41	Petrov Mikhail	Diamond nanoparticles in aqueous colloids – a complex study
P3.42	Ramanaviciene Almira	Optical sugar sensor based on synthesis of gold nanoparticles
P3.43	Rennie Adrian	Mixtures of spherical particles - co-existing crystal and liquid phases
P3.44	Yesil Tolga Acar	Electrokinetic properties of polypyrole/Expanded perlite conducting composites
P3.45	Schubert Jonas	Physicochemical Identity of Protein-Coated Gold Nanoparticles
P3.46	Strubbe Filip	Characterizing generated charged inverse micelles
P3.47	Sun Qiang	Robust boundary integral formulation of Debye-Hückel model
P3.48	Takenaka Yoshiko	One-pot synthesis of high-aspect-ratio twin gold nanorods
P3.49	Tierno Pietro	Colloidal Microworms Propelling via a Cooperative Hydrodynamic Conveyor-Belt
P3.50	Tovstun Sergey	An approach to analysis of optical spectra of colloidal quantum dots and their aggregates: taking account of inhomogeneous broadening, blinking, and FRET
P3.51	Visan Aura	Diffusio-phoresis of photocatalytic particles under self-generated concentration gradients
P3.52	Werner Marcel	Investigation of the osmotic deswelling of polystyrene microgels by polymer addition
P3.53	Wiącek Agnieszka Ewa	The electrokinetic behaviour of chitosan-treated TiO2 suspensions
P3.54	Ito Thiago Heiji	Hematite Ellipsoids coated with Silica Shell: Phase Behavior and Dynamics
P3.55	Fontana Laura	Synthesis of gold and silver nanoparticles functionalized with organic dithiols
P3.56	López-García José Juan	Ion size effect on electrophoretic mobility of a colloidal particle
P3.57	Lee Yea Ram	Novel Hydrophobically Associative Cellulose Nanofibers for Controlled Suspension Rheology of Nanoscale Fluids
P3.58	Palazzo Gerardo	Rich-diamond and rich-graphite nanodiamond particles
P3.59	Arroyo Francisco	Permittivity of concentrated aqueous colloidal suspensions: the role of water, CO2, added salt, and ions released from the particles

P3.60	Agresti Filippo	Colloidal suspensions of goethite (α-FeOOH) nanorods: effect of synthesis parameters on nanorods morphology and optical properties under magnetic field
P3.61	Lebedeva Elena	Properties of nanocrystalline cellulose hydro-sols
P3.62	Piasecki Wojciech	The influence of surface potential on the re-laxation time of hydrogen ion adsorption from solution onto oxides
P3.63	Cuomo Francesca	Coumarin derivative for sensing application: nucleotides identification by means of micel-lar system
P3.64	Simionesie Dorin	Understanding the aggregation mechanism and stability of asphaltenes
P3.65	Dekker Frans	Synthesis of cubic colloids for as model well-defined depletion interactions
P3.66	Botin Denis	Quantitative approach to modular mi-cro-swimmer
P3.67	Joshi Darshana	Magnetic field assisted assembly of DNA coated colloids
P3.68	Vasudevan Siddarth	Dynamics of concentrated core-shell nanoparticle suspensions from confocal differential dynamic microscopy
P3.69	Romio Martina	Nano-composites of DNA-wrapped Carbon Nanotubes and TiO2, or SiO2
P3.70	Rouquette Rémi	Luminescent platinum complexes-polymer nanoparticles
P3.71	Deen GR Roshan Deen	New Stimuli-Responsive Cationic Microgels
P3.72	Santos Silva Pedro	Spontaneous emulsification of water in oil at appreciable interfacial tensions
P3.73	Lécolier Eric	Study of dispersions of non-spherical colloi-dal aggregates of boehmite

Polymer Solutions, Gels and Phase Behaviour

P4.1	Alves Luís	The role of cyclodextrin-tetrabutylammonium interaction on the cellulose dissolution and gelation
P4.2	Asaro Fioretta	The structural motif of the low molecular weight organogelator (R)-9-hydroxystearic acid revealed by X-ray synchrotron radiation
P4.3	Backes Sebastian	Cononsolvency vs. temperature: volume phase transition of PNIPAM-based microgels in water/ethanol mixtures in bulk and on surfaces
P4.4	Baglioni Michele	Nanofluids and chemical hydrogels for the selective removal of overpaintings and undesired graffiti from street art

P4.5	Bartolini Arianna	Encapsulation of small molecules by poly(ethylene glycol)-graft-poly(vinyl acetate) unimer micelles
P4.6	Ortega Francisco	Microrheology of polymeric gelling systems
P4.7	Kuchina Yuliya	Gelling properties of (bio)polyelectrolyte complexes of ionic polysaccharide with gelatin
P4.8	Sato Takaaki	Understanding critical behaviour of pNIPAm: Hydration/dehydration, solvent deuterium isotope effects, and cononsolvency
P4.9	Lee Chin-Fen	Kinetic effect of Pluronic F108 aqueous solutions on the gel formation
P4.10	Cautela Jacopo	Aggregation in wormlike micelles of ternary lecithin, water, sodium deoxycholate systems in organic solvent
P4.11	Krisch Eniko	Poly(aspartic acid) hydrogels showing reversible volume change upon redox stimulus
P4.12	Besold Daniel	Rational design of Au@PNIPAM core-shell nanoreactors with tunable selectivity for catalysis
P4.13	Schwarz Simona	Polyelectrolytes: the Solution Behavior and their Application in papermaking Process
P4.14	Philippova Olga	Nanogels of chitosan and hydrophobically modified chitosan
P4.15	Ramsh Roland	Fast temperature screening for viscosity determination of thermoresponsive polymers by microfluidic
P4.16	Resta Claudio	Photo-responsive PVA based materials: study of their filming and self-assembling properties
P4.17	Gourmel Charlotte	Primary structure and composition: tailored thermo-, oxidative and thermo-oxidative responsiveness of polysulfides
P4.18	Lu Hongduo	The Asymmetric Restricted Primitive Model of Molten Salts and Ionic Liquids
P4.19	Guidotti Martina	A new model to predict efficiency of cleaning systems: HLD parameter
P4.20	Helm Christiane	Molecular mechanimsms associated with non- linear growth regimes of polyelectrolyte multilayers
P4.21	Mileva Elena	Aqueous Solutions of Hydrophobically Modified Polyacrylic Acids: Polymer Chain's Length Effect
P4.22	Del Buffa Stefano	Physico-chemical characterization and mineralization of gelatin and poly (vinyl alcohol) hydrogels
P4.23	Sabattie Elise	Influence of compatibility on oligomer partitioning in model adhesives.

P4.24	Dias Rita	Synergy of DNA-binding agents and macromolecular crowding on DNA condensation
P4.25	Nöjd Sofi	Field-Directed Self-Assembly of Soft Thermo-Responsive Colloids
P4.26	Mazzuca Claudia	Hydrogels for paper cleaning: the new entries
P4.27	Kamerlin Natasha	Uniaxial deformation of cross-linked gels
P4.28	Tomomatsu Koki	Mechanism for Forming Composite Film of Aluminum Salt / Anionic-polymer
P4.29	Filho Cesar	Efficient simultaneous removal of petroleum hydrocarbon pollutants using a silica aerogel-like material
P4.30	Znamenskaya Yana	SAXS study of structure and phase behaviour of pig gastric mucin at different temperatures and hydration levels
P4.31	Smilek Jiri	New methods of study of reactivity and barrier properties of biocolloids
P4.32	Czemierska Magdalena	Flocculating activity of exopolymer Rs-202 obtained from Rhodococcus rhodochrous
P4.33	Czemierska Magdalena	Physico-chemical characterisation of exopolymer from Rhodococcus opacus
P4.34	Kanduc Matej	Adsorption of reactants on a PNIPAM polymer
P4.35	Perfetti Marco	Poly(vinyl alcohol)-based microgels prepared through salting out: rationalising the aggregation process
P4.36	Stornes Morten	Coarse-grained Monte Carlo simulations on the interaction of nanoparticles with weak polyelectrolytes
P4.37	Ramos Estrella	The DNA duplex stability: estimation of the energy of hydrogen bonds and reactivity using TATA box as model
P4.38	Pires-Oliveira Rafael	Controlling POEGMA aggregates by varying the copolymer architecture
P4.39	Giorgi Rodorico	Film-forming gels for the removal of corrosion products from copper-based artifacts
P4.40	Lo Nostro P.	Innovative systems for the control of viscosity of polymer dispersions for shale gas applications
P4.41	Locatelli Emanuele	Investigating of star - long chain mixtures phase diagram by means of a novel coarse-graining approach
P4.42	Cimmarusti Gabriele Michele	Cation dependence of cellulose solution structure in alkaline solvent
P4.43	Kovacevic Davor	Interpolyelectrolyte interactions: relationship between formation of polyelectrolyte complexes in solution and polyelectrolyte multilayer build-up

P4.44	Penkavova Vera	Optimization of the reaction mixture and validation of the microreactor platform for the stereoselective hydrogenation in presence of ionic liquids
P4.45	Tatini Duccio	Physico-chemical properties of green hydraulic fracturing fluids for European shale gas extraction
P4.46	Trybala Anna	Wetting Properties of Cosmetic Polymeric Solutions on Hair Tresses
P4.47	Tomsic Matija	Investigating Structural and Dynamic Roles of Polymers in Model Levan-Based Biofilm Mixtures
P4.48	Ercioglu Nihan	Preparation and Characterization of Hydrogels Containing Biodegradable Materi-als for Controlled Drug Release
P4.49	O'Neill Thomas	Mesoporous colloidal gels for optical applications - synthesis and characterisation
P4.50	Matsushita Alan	Effect of Eu(III) chloride on the gelification behavior of poly(acrylic acid)
P4.51	Boire Adeline	Droplets-based millifluidic for the establishment of protein-polysaccharide phase diagrams
P4.52	Sarri Filippo	Rheology of green gelling agents in fracturing fluid formulations for shale gas exploitation
P4.53	Lehmann Maren	Light-induced heating of gold nanoparticle-microgel hybrids
P4.54	Ruiz-Franco José	Shearing colloidal gels
P4.55	Yang Jiayi	Spherical Nanocomposite Particles Prepared from Mixed Cellulose-Chitosan Solutions
P4.56	Kim Won Kyu	Effect of fluctuations on tracer diffusion in networks
P4.57	Pettersson Torbjorn	Flexibility of never dried cellulose fibre measured with AFM
P4.58	Venediktova Anastasia	In search for enhanced stability of biaxial phase in ternary nematic mixtures of hard axially-symmetric particles
P4.59	Southan Alexander	Physically and chemically gelling hydrogel formulations based on poly(ethylene glycol) diacrylate and Poloxamer 407
P4.60	Koo Chong Min	Organic-inorganic hybrid polysilsesquioxane ionogel electrolyte for energy storage devices
P4.61	Witt Marcus	Magnetic PNIPAM microgels: Towards multi responsive materials
P4.62	Gentile Luigi	Cellulose Dissolved in Aqueous Tetrabutyl Ammonium Hydroxide

P5 - Micro- and Nanostructured Materials

P5.1	Raeisi Ronak	Biosynthesis of gold nanoparticles using an ecofriendly method and cytotoxicity assessment on Huh7 and HFFF2 cell lines
P5.2	Karabanova Lyudmyla	Interfacial Interactions in the Nanocomposites Based on Thermosetting Polyurethane and Multi-Walled Carbonanotubes with Surface Functionalization
P5.3	Zemb Thomas	What is the origin of efficiency of partially burnt rice husk ash as wide-spectrum water filter?
P5.4	Rima Simonetta	Polymer Nanocomposite Materials reinforced with Amyloid Fibrils
P5.5	Lasoń Elwira	Formation of stable NLC delivery systems for alpha lipoic acid: physicochemical characteristics and release study investigation
P5.6	Testa Giovanna	Y3+ embebbed in polymeric nanoparticles: morphology, dimension and stability of colloidal system
P5.7	Diaconeasa Zorita	Novel formulation of liposome-encapsulated anthocyanin
P5.8	Angelico Ruggero	Rheological performance and high stability of bitumen modified with surfactant, rubber (SBR/BR) and crumb rubber (CR) additives.
P5.9	Schwarzer Madeleine	Anti-Icing and de-icing surfaces based on hairy core-shell particles as building blocks
P5.10	Aitmakhanova Dina	Polymer Nanocomposites of Iron Oxides
P5.11	Glukhovskoy Evgeny	Thin film nanostructured materials based on mesogenic mix-substituted phthalocyanines
P5.12	Bujanda Herrera Laura Soledad	Towards development of functional coatings by the synthesis of TiO2-Fe nanoparticles and its incorporation in a polymeric matrix
P5.13	Tonelli Monica	MgO/SiO2 and Portland cement formulations: mutual effects on reaction kinetics and hydration products
P5.14	Zapotoczny Szczepan	Thermosensitive Brushes Tethered on Wet Bacterial Cellulose Sheets for Improving Their Swelling-Drying Ability
P5.15	Zapotoczny Szczepan	Oil-core nanocapsules stabilized by graft amphiphilic polyelectrolytes
P5.16	Pitzalis Federica	Similtaneous immobilisation of Glucose Oxidase and Horseradish Peroxidase on SBA-15 mesoporous silica
P5.17	Sarac Eylul	Graphene (oxide) - Metal Composites for Electrochemical and Catalytic Applications

P5.18	Wawrzynczyk Dominika	Influence of encapsulation process on the optical properties of up-converting NaYF4 nanoparticles and photosensitizing dyes
P5.19	Trulsson Martin	A combined numerical and experimental titration study of mesoporous silica particles.
P5.20	Bober Patrycja	Conducting inks: extended polypyrrole nanostructured colloids
P5.21	Iwashita Yasutaka	Orientational order of one-patch particles in a quasi-two-dimensional system
P5.22	Di Renzo Francesca	Increase of carbonic anhydrase efficiency in amine solutions and using silica matrices as solid supports
P5.23	Korobko Evguenia	Rheological Behavior of Composite Structurally Reinforced Materials in a Magnetic Field
P5.24	Korobko Evguenia	Rheology of Dielectric Suspentions Based on Modified Dual-Doped Titanium in Oxide Elecrtic Field
P5.25	Mcclements Jake	A closer look at the carbon/polymer interface - an AFM study
P5.26	Dzimitrowicz Anna	The effect of the discharge gas on the optical properties and morphology of the silver nanoparticles produced with the aid of the atmospheric pressure glow microdischarge generated in contact with a flowing liquid anode
P5.27	Ulku Irem	ZnO Photoinitiators in Production of ZnO/ Polymer Nanocomposites
P5.28	Bonomo Matteo	Comparison of the electrochemical and photoelectrochemical properties of screen-printed nickel oxide thin films obtained from pastes with different composition
P5.29	Mathonnat Mélody	PIC micelles as versatile structuring agents for mesoporous materials: a physico-chemical overview.
P5.30	Pigliacelli Claudia	Peptide-mediated synthesis of gold nanoparticles: effects of peptide halogenation
P5.31	Yazhgur Pavel	Hyperuniform materials made with microfluidics
P5.32	Rauh Astrid	Influence of the shell-to-core ratio of hard core/soft shell particles at liquid/liquid interfaces
P5.33	Nagel Jürgen	Immobilisation of nanoparticles on polymer surfaces via melt processing
P5.34	Harizanova Antoaneta	Optical and structural study of Ga and In co-doped ZnO films
P5.35	Lesnichii Vasilii	Bifurcation of the dye diffusion coefficient in bulk polymer below the glass transition temperature
P5.36	Sénéchal Vincent	Electro-responsive polymer surfaces

P5.37	Ricci Alessandro	From material science to biomedicine: heterogeneous functional materials as seen by synchrotron x-ray (sub)micron beam techniques
P5.38	Nguyen Thi My An	Large-area two-dimensional colloidal crystals of silica particles of different sizes at the air/water interface
P5.39	Soares Sofia	Magnetic hybrid nanoadsorbents for the uptake of pharmaceuticals from water
P5.40	Nakay Emre	Degradation of azo-dyes with PEI/Au nanoparticles: influence of the PEI structure and molecular weight
P5.41	Li Shan	Contact angle hysteresis of a water droplet on regular pillar-like hydrophilic patterned surfaces
P5.42	Szabo Tamas	Catalytic investigation of Pd-graphite oxide nanocomposites
P5.43	Ben Tahar Nourredine	Nanotechnology
P5.44	Rugina Dumitrita	An alternative diabetic retinopathy therapy: a laser triggered microsystem for controlled release of resveratrol
P5.45	Alp Erdem	Solidification of Magnetic Liquid Marbles
P5.46	Schmitt Michael	Functional ZnO nanoparticles as photo-initiators
P5.47	Shallcross Laura	Investigating the interactions of nanoscale calcium phosphates with polymer additives
P5.48	Ouhajji Samia	Multiscale self-assembly of microtubes
P5.49	Fateixa Sara	Raman imaging and chemisorption studies of methylene blue dyeing of antimicrobial textile fibres
P5.50	Ichikawa Shuji	Spherical porous polymer particles prepared by phase inversion emulsification process
P5.51	Ogura Taku	Morphology control of zinc oxide particles in the presence of anionic surfactants
P5.52	Cingolani Alberto	Synthesis of macro-porous materials via controlled aggregation of colloidal polymer particles
P5.53	Korkmaz Gulnur Sehnaz	SLN versus Vegetable Oils Consist NLC for Drug Delivery Application
P5.54	Kappl Michael	Breaking Nano-Spaghetti: Bending and Fracture Tests of Nanofibers
P5.55	Trindade Tito	Surface modification of graphene oxide flakes with copper sulfide nanophases aiming at applications in photocatalysis
P5.56	Retamal Marín Rodrigo Renato	On-line characterization of micro- and nanostructured materials in Process Analytical Technology (PAT)

P5.57	Schönecker Clarissa	Local resolution of the flow field and the slip length of a superhydrophobic surface
P5.58	Unsal Hande	Stimuli responsive lipid nanotubes-gel complexes for doxorubicin delivery
P5.59	Pozharov Mikhail	Simulation of molecular structure and electrical conductivity of metal phthalocyanines as the basis of the self-assembly monolayers
P5.60	Marschelke Claudia	Stimuli-responsive hairy particles for enzymatic catalysis in bulk and at interfaces
P5.61	Marschelke Claudia	Hybrid hairy Janus particles as novel building blocks for active surfaces and interfaces
P5.62	Gu Sasa	Intrinsic peroxidase-like activity of Pt nanoparticles immobilized in spherical polyelectrolyte brushes
P5.63	Ramanaviciene Almira	Electrochemical synthesis of dendritic gold nanostructures for glucose biosensor design
P5.64	López-Lorente Ángela Inmaculada	Gold nanostructures for surface enhanced vibrational spectroscopy
P5.65	Bramosanti Marco	Ribavirin entrapment into PLGA NPs by a novel microfluidic approach
P5.66	Wilk Kazimiera A.	Nano-sized self-assemblies of biocompatible amphiphilic diblock copolymers as nanocarriers for hydrophobic photosensitizers
P5.67	Vinceković Marko	Simultaneous encapsulation of biological and chemical agents for plant protection/nutrition
P5.68	Boinovich Ludmila	How surfactants affect the wetting of superhydrophobic surfaces
P5.69	Miastkowska Małgorzata	The release of perillyl alcohol from the different kind of vehicles
P5.70	Sikora Elzbieta	Study of silver nanoparticles release from antibacterial gel formulations
P5.71	Fessi Nidhal	Intensification of environmental photodegradation of pollutants by Pickering emulsions
P5.72	Brasili Francesco	Aggregation and stability in solution of plasmonic active nano-biocolloids
P5.73	Németh Csaba	Nanofibrous polyaspartamide matrices
P5.74	Ruckdeschel Pia	Thermal transport of hollow silica sphere and polystyrene-silica core-shell particle colloidal crystals
P5.75	Desideri Alessandro	Role of vertical ZnO nanowires on modulating the myogenic differentiation of primary mesongioblast cells
P5.76	Paradossi Gaio	Temperature for tuning the surface of hybrid nanogels
P5.77	Sánchez Pedro A.	Conformations of a colloidal magnetic filament under flow and external field

P5.78	Montanari Elita	Development of pH-responsive hyaluronan-boronate nanocarriers
P5.79	Buratti Elena	Preparation of poly(N-isopropylacrilamide) / polyacrylic acid IPN microgels at different composition
P5.80	Vollmer Doris	Drops on slippery surfaces
P5.81	Choi Song-Ee	A new approach to fabricate colloidal pressure sensors using monodisperse conducting elastomer microparticles
P5.82	Tortolini Cristina	Alchol dehydrogenase amperometric biosensor based on a hybrid electropolymerised nanocomposite
P5.83	Frédéric Loosli	Magnetic wire microrheology to differentiate viscoelastic liquids from yield stress gels
P5.84	Carlini Laura	Thiol-functionalized gold and silver nanoparticles using mixed ligands: a close look at the atomic structure and chemico-physical properties by SR-XPS and SERS
P5.85	Emelyanenko Kirill	Nanosecond laser treatment for the design of superhydrophobic coatings with extremely long-ranged freezing delay, robustness to long-term contact with water, corrosion active media, cavitation, and abrasion
P5.86	Witzleben Steffen	Strategies to Influence the Crystallization Process of Calcium Silicate Hydrates
P5.87	Vavra Jan	Phospholipid coatings of fluorescent nanodiamonds
P5.88	Senchikhin Ivan	Synthesis of novel nanocomposites based on silver nanoparticles and epoxy-amine polymers
P5.89	Nutz Fabian	Polymer colloidal assemblies: from film formation to order-disorder thermal transport properties
P5.90	Xu XiuMei	Elastocapillary self-assembly of silicon nanopillars
P5.91	Roa Rafael	Description of catalytic rates in stimuli-responsive nanoreactors
P5.92	Tobishima Kazuya	Preparation of SiO2/Au/TiO2 Core-Shell Nanoparticles and Their Photocatalytic Properties
P5.93	Ivanova Tatyana	Sol-gel derived ZnO:Y nanostructured films: structural and optical study
P5.94	Desvergne-Bléneau Sandra	Disclosing weak phenomena at multiple scales in soft matter using simultaneous SAXS/WAXS laboratory system
P5.95	Salvatore Annalisa	Magnetoliposomes for Sequential Controlled Release

P5.96	Barbetta Aurelio	Nano-, meso- and macro-swelling characterisation of impregnated compression wood cell walls
P5.97	Coman Cristina	BSA and PEG Coated Colloidal Gold Nanoparticles: Characterization, Cellular Uptake and Biocompatibility
P5.98	Ocwieja Magdalena	Formation of gold nanoparticle monolayers of controlled structure and electrokinetic properties
P5.99	Wasik Jacek	Stress triggered colour-changing elastic materials for motivational dental applications.
P5.100	Lopes Joana	In situ growth of silver sulfide nanocrystals onto graphene oxide flakes: synthetic, spectroscopic and photocatalytic studies
P5.101	Yang Jiayi	Preparation and Characterization of Bio-Nanocomposite Films with Antibacterial Properties from Mixed Cellulose and Chitosan Solutions
P5.102	Muhammad Aslam Raheema	Control of axial symmetry and structure of concentrated spin coated colloidal deposits by external sources
P5.103	Maggi Claudio	Active micromotors: efficient Marangoni-driven microgears and self-assemblying Janus micromachines.
P5.104	Endo Takeshi	Preparation of self-cleaning AG/AR film with hollow structured layer of titania particles.
P5.105	Biviano Matthew	Nano-mechanical characterisation of pea protein shell encapsulates produced via ultrasound

Biomaterials and Medical Aspects

P6.1	Alvarado Guzmán María José	Complexation of aromatic surfactants
P6.2	Angelico Ruggero	Preparation, physico-chemical characterization and in vitro test of a silybin–phospholipid complex encapsulated into liposomes.
P6.3	Benbow Natalie	Exploring the impact of molecular weight of fucoidan polysaccharides on the adsorption of protein to a PEM surface
P6.4	Barbetta Aurelio	Composition-dependent equation of state of cellulose based plant tissues
P6.5	Carbone Marilena	Cu-Zn and Cu-Zn-Co nanosized mixed oxides for biocide action against Escherichia coli
P6.6	Chronopoulou Laura	Injectable peptidic hydrogels for bone tissue repair and regeneration
P6.7	Fasolato Claudia	Antifolate functionalizated SERS-active nanovector: from cell targeting to theranostics

P6.8	Fasolato Claudia	Surface Enhanced Raman Microimaging Allows for Screening Single Cells With Different Folate Binding Capability
P6.9	Giansanti Luisa	Remote loading of voacamine in cationic liposomes
P6.10	Göse Martin	Functionalized lipid bilayer on LbL-microcarriers – mimicking a cell for targeted drug delivery
P6.11	Jabłonowska Elżbieta	Interactions of lipidic cubic phase nanoparticles with lipid membranes
P6.12	Khomutov Gennady	Nanocomposite membraneous vesicles for controlled encapsulation, transport and release
P6.13	Kruk Tomasz	Polyelectrolyte films with the „antifouling" properties
P6.14	Yu Shun	Thermodynamic analysis of Human Serum Albumin interaction with uremic toxins.
P6.15	Wilk Kazimiera A.	Phosphatidylcholine with conjugated linoleic acid in fabrication of custom-designed lipid nanocarriers
P6.16	Lin Tsang-Lang	Encapsulation of DNA by cationic and anionic disc-shaped bicelles
P6.17	Lopez-Cabarcos Enrique	MicroRNA detection through upconversion emission enhancement between NaYF4:Yb,Er nanoparticles and carbon dots
P6.18	Lopez-Cabarcos Enrique	Functionalization of inorganic nanoparticles for specific applications
P6.19	Malmsten Martin	Membrane interactions of mesoporous silica nanoparticles as carriers of antimicrobial peptides
P6.20	Mamusa Marianna	Liposomal delivery of oligonucleotide therapeutics against antibiotic-resistant bacteria
P6.21	Mallardi Antonia	A general approach to the encapsulation of glycoenzymes chains inside calcium alginate gel beads.
P6.22	Molnár Kristóf	Poly(amino acid) based nano gel fibers for tissue engineering
P6.23	Moya Sergio	Translocation, biological fate, stability and effective dose of engineered NMs
P6.24	Murgia Sergio	Liquid Crystalline Nanoparticles for Cancer Theranostics
P6.25	Kairaliyeva Talmira	Waste water treatment by natural sorbents
P6.26	Nazaruk Ewa	Lipid-liquid crystalline nanoparticles in drug delivery system
P6.27	Paunov Vesselin	Control of the Nanotoxicity of Polymer-Coated Titania Nanoparticles
P6.28	Szlezak Monika	Electrochemical study of drug release from hybrid cubic phases

P6.29	Pujol Montserrat	Interaction of the E2-GBV-C derived peptide, P6-2-VIR576, with Phosphatidylcholine rich Membranes
P6.30	Rojewska Monika	The comparison of absorptivity and wettability of powder and tablets containing mixture of mucoadhesive polymers and Fluconazole as active pharmaceutical ingredient
P6.31	Rojewska Monika	Absorptivity and wettability of mucoadhesive polymers containing fluconazole in systems with simulated biological fluids
P6.32	Salvagni Emiliano	Novel Antibacterial Peptide Modified Contact Lenses
P6.33	Schwarz Simona	Investigation of the adsorption process of heavy metal ions from aqueous solutions on chitosan by SEM-EDX analysis
P6.34	Bohinc Klemen	Bacterial adhesion on food contact material surfaces
P6.35	Chen Zhijun	Near-Infrared-Sensitive Nanomaterials based on Ru Complex-Functionalized Upconverting Nanoparticles for Biomedical Applications
P6.36	Chevalier Yves	Antimicrobial films containing microparticles for the enhancement of long term sustained release
P6.37	Chevalier Yves	The parameters influencing the morphology of poly(ε-caprolactone) microspheres and the resulting release of encapsulated drugs
P6.38	Szczepanowicz Krzysztof	Encapsulation of curcumin in polyelectrolyte nanocapsules and their neuroprotective activity
P6.39	Szczepanowicz Krzysztof	Magnetic nanocapsules for delivery of therapeutic compounds
P6.40	Selivanova Natalia	Lyotropic Liquid Crystal Based on Nonionic Surfactants as Media for Encapsulation of Bioactive Molecules
P6.41	Shibata Osamu	Interfacial behavior of gemini type perfluorinated surfactants with DPPC at the air-water interface - effect of spacer length
P6.42	Szczes Aleksandra	Calcium carbonate formation on mica supported extracellular polymeric substance produced by Rhodococcus rhodochrous
P6.43	Szczęch Marta	The polymer-based nanoparticles as neuroprotectants-loaded carriers for brain drug delivery
P6.44	Szilágyi Barnabás Áron	Highly thiolated and S-protected poly(aspartic acid) derivatives as in situ gelling ophthalmic drug delivery formulation
P6.45	Tokarczyk Karolina	Towards modern drug carriers: physico-chemical characterization of protein using simulation and experiment

P6.46	Tsirigotis-Maniecka Marta	Double-compartment hydrogel particles for targeted delivery and sustained release of hesperidin
P6.47	Uchman Mariusz	Lactic acid and glucose-responsive micelles of poly(ε-caprolactone)-b-poly(ethylene oxide) block copolymers with phenylboronic ester as a sensitive blocks connector
P6.48	Walz Michael	Preparation and characterization of modified inulin particles by spray-drying regarding release behaviour and cytotoxicity
P6.49	Wiącek Agnieszka Ewa	Chitosan/DPPC coated polymer surfaces activated by air plasma
P6.50	Yang Yu-Min	Encapsulation efficiency and release rate of water-soluble drug in ethosome-like catanionic vesicles
P6.51	Zawadzka Monika	Lipid-liquid crystalline cubic phase in drug diffusion studies
P6.52	Leopold Loredana	Raman approach to monitor the internalisation of peg coated colloidal gold nanoparticles in cells
P6.53	Del Buffa Stefano	Phosphate based cross-linking agents for poly(vinyl alcohol): physico-chemical characterization and bio-mineralization
P6.54	Nairi Valentina	Mesoporous silica nanoparticles functionalized with hyaluronic acid and chitosan biopolymers. Effect of functionalization on cell internalization
P6.55	Junghans Victoria	Hydrodynamic Trapping of Immune Synapse Proteins in Supported Lipid Bilayers
P6.56	Dement'eva Olga	New concept of mesoporous nanocontainers synthesis and loading
P6.57	Ratcliffe Liam	Inducing an order-order morphological transition via chemical degradation of amphiphilic diblock copolymer nano-objects
P6.58	Soto Tellini Víctor Hugo	Synthesis of new bile alcohols in 24 position
P6.59	García-Celma María-José	Design of hyaluronic acid hydrogels: Effect of crosslinker concentration on drug release and toxicity
P6.60	Plotniece Aiva	Structure-activity relationships of a series of self-assembling compounds on 1,4-dihydropyridine core as delivery agents
P6.61	Zhang Xiaohan	Macromolecular HPMA-Based drug delivery system - behavior in protein environment
P6.62	Schellenberger Frank	Super Liquid Repellency

P6.63	Domazet Jurašin Darija	Dynamic light scattering study of amorphous calcium phosphate formation
P6.64	Dutour Sikirić Maja	Influence of structurally different amino acids on calcium phosphate precipitation
P6.65	Dutour Sikirić Maja	Comparative study of amorphous phases formation and transformation in calcium phosphate and calcium carbonate precipitation systems
P6.66	Theodoratou Antigoni	Structure and Mechanical Properties of Castor Oil Hybrid Films
P6.67	Ercioglu Nihan	Controlled Drug Release from Contact Lenses Prepared by Using the Layer-by-Layer Method
P6.68	Del Giudice Alessandra	The structural response of albumin to oxidation
P6.69	Sarra Angelo	Towards the Study of Exosomal Membrane Phase Transition
P6.70	Ortiz Alba	Investigation of the interaction between P6-2-VIR and lipid bilayers by fluorescence techniques
P6.71	Zappacosta Romina	Few-layer graphene dispersion in liposomes with antibacterial activity
P6.72	Maeda Seren	Effect of external factors on the human skin corneocyte morphology
P6.73	Prasetyanto Eko Adi	Hybrid Organosilica for Smart Drug Delivery System
P6.74	Ugolini Andrea	New chemical routes to biocompatible gold nanoparticles: a cheap two steps approach.
P6.75	Ugolini Andrea	New colloidal frontiers as radiosensiters agents : a smart chemical approach to biocompatible gold and platinum nanoparticles.
P6.76	Chinappi Mauro	Electroosmotic flow through an a-hemolysin nanopore

SOCIAL DINNER

The ECIS social dinner will be held in the **Palazzo Brancaccio**, an historical building located in the centre of Rome (address: Viale del Monte Oppio, 7).

Brancaccio Palace is the last Roman Patrician Palace built in 1880 in the heart of Rome. Located on Colle Oppio, near Emperor Nero's,"Domus Aurea" and the seven hills, between Colosseum and the famous Basilica of Santa Maria Maggiore.

Princess Mary Elisabeth Field, American wife of Salvatore Brancaccio, in 1879 relied on architect Gaetano Koch the construction of the palace situated in a beautiful natural old park between roman ruins, centuries old plants and fountains, mixed by vegetable essence.

In the Park you can also admire the small and charming Hunting Lodge turned into a Coffee House, rich of decorations and painted by Francesco Gay.

Inside the Palace you can find enchanting banquet rooms where Mary Elisabeth Field gave magnificent sumptuous parties also in honour of the King Umberto of Savoy.

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From the University Campus, take the exit on the Via De Lollis side. Turn to the left and walk down the street (80 m) until you reach Piazzale del Verano. Here you will find the bus-stop “Verano-De Lollis” where you have to take the bus number 71 until “Rattazzi-Napoleone III” bus-stop (5 stops). From there you have to walk for 450 m (follow the map below).

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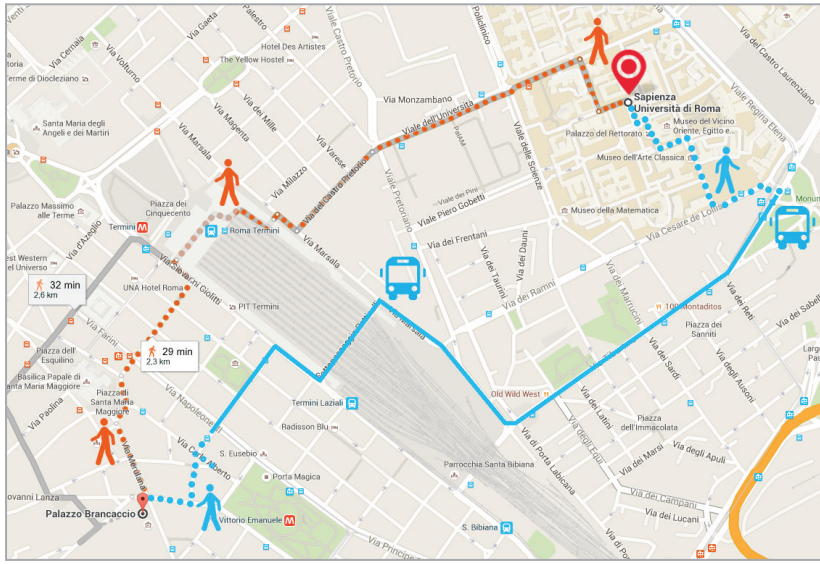

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