



32nd Conference of
The European Colloid and Interface Society
Ljubljana, Slovenia, 2nd - 7th September 2018



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Welcome

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RESEARCH ENTITELD

Title

and presented as a poster at the 32 nd Conference of European Colloid and Interface Society in Ljubljana, Slovenia, 2 nd - 7 th September, 2018 (ECIS2018) was awarded by prize sponsored by

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32 nd ECIS Conference Organizing Committee

The 32nd ECIS Conference Organizing Committee

Committees

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Committees

Scientific committee

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2018 Conference Partners



General information

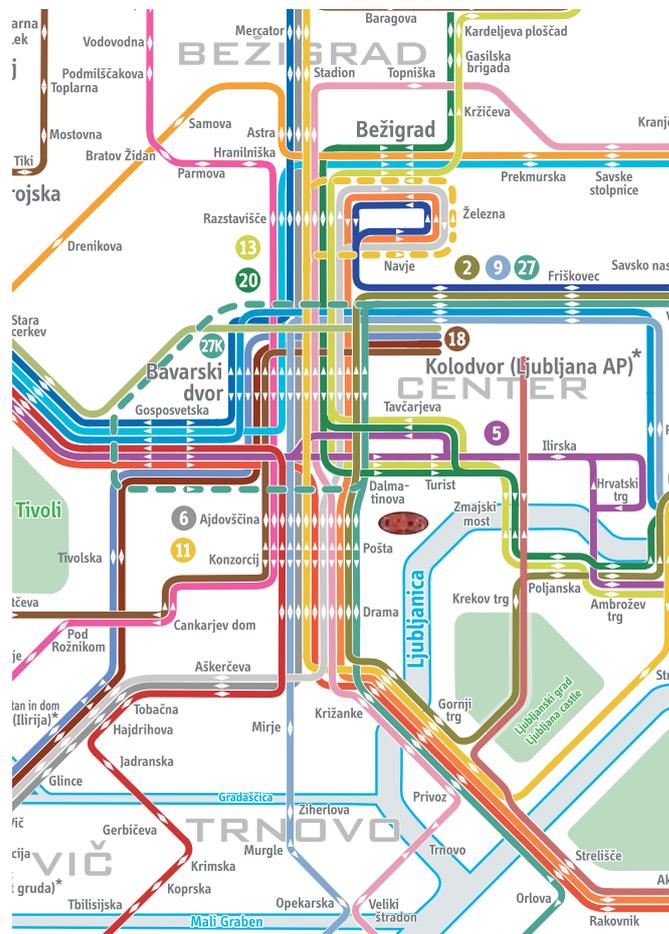
Ljubljana Public Transport

To use Ljubljana Public Transport two prepaid services are at disposal: Urbana App for smartphones with NFC and Urbana Card. The latter can be bought at Urbanomat vending machines at most bus stops, newsstands and at the main bus station. Both services can be filled at the abovementioned places. The ticket price for one bus ride is EUR 1.20, which includes an unlimited number of bus transfers within 90 minutes. The bus and train stations are connected to the centre of Ljubljana via bus lines **2, 9, 18,** and **27**.

There are several options to get to the conference site (Grand Hotel Union):

- by foot (10 min),
- by bus lines **2, 9, 18** and **27** take-off at the Ajdovščina or Konzorcij/Pošta stations (5 min walking distance) or
- transfer to lines **13** or **20** at the bus station Bavarski Dvor and take-off at the Turist station (2 min walking distance).

The majority of hotels are within walking distance from the venue. From Austria Trend Hotel (Smelt station) take bus lines **6** or **11** and take-off at the Ajdovščina or Konzorcij/Pošta stations. The number **5** bus line directly connects Hotel Lev (Gospodsvetska station) with the Grand Hotel Union (Turist station).



Social Programme

Registration and Welcome Reception

The Welcome Reception will take place on Sunday, 2nd September 2018, from 18:30 at the Grand Hotel Union. Drinks and snacks will be served. A short interpretation of folk dances originating from Slovenia will be presented by the Folklorna Skupina Stična at 19:30.

The **registration desk** will be opened on **Sunday, 2nd September 2018, from 17:00 until 20:00** and every day during the conference programme, on Monday starting at 8:00.

Ljubljana City Tour

In the afternoon of Wednesday, 5th September 2018, there will be a free guided tour of Ljubljana, sponsored by the Municipality of Ljubljana. The groups will be picked up in front of the Grand Hotel Union at 15:30 (right after the poster session).

Bled (facultative)

On Wednesday, 5th September 2018, the buses will start at 15:00 from the Grand Hotel Union.

Ljubljana Castle Reception with Beer Tasting

In the evening of Wednesday, 5th September 2018, there will be a beer-tasting event starting at 19:00 in the Ljubljana Castle. Entry with name tag.

Ljubljana Castle is positioned on the hill and can be reached from the venue by foot in 20 min. Alternatively, you can use a funicular (by the Ljubljana Puppet Theatre, 10 min walk from the venue). A reduced return-ticket fee of EUR 3.00 is guaranteed for the conference participants (use your name tag).





Gala Dinner

The Gala Dinner will be held on Thursday, 6th September 2018, in the Union Hall of the Grand Hotel Union starting at 19:30. Entry with a ticket only.

The Gala Dinner's dishes will be designed by the famous chef Jorg Zupan, a member of the vibrant new wave of Slovenian Chefs who gained their experience abroad and returned to their homeland with the knowledge and desire to change their country's culinary scene for the better. Among others Chef Zupan worked in famous Michelin-starred restaurants The Fat Duck and Maaemo.

Gala Dinner After Party

Starting at 22:00, the dinner will be followed by the music from Xequitfz – an urban pop band that treads the thin line between acoustic and electronic nudisco and dance music. The event will be open to all participants of the ECIS conference. Entry with name tag.

Postojna cave (post-conference tour, facultative)

On Friday, 7th September 2018, the bus will start at 14:00 from the Grand Hotel Union (returns to Ljubljana).

Conference Topics

1. Interfaces, Membranes, Emulsions and Foams
2. Colloids and Interfaces in Medicine, Pharmacy, and Industry
3. Dispersions, Stability and Phase Behaviour
4. Dynamics of Colloids and Complex Fluids
5. Micro- and Nanostructured Materials
6. Surfaces and Colloids in Environment
7. Self-Assembly
8. Polymers, Polyelectrolytes, Gels, Liquid Crystals
9. Biocolloids and Biomimetic Materials
10. Wetting and Superhydrophobic Surfaces
11. Hydration and Specific Ion Effects
12. Colloid and Interface Science in Energy Resource Management

In Memoriam

Last year, the international colloid and interface community lost six prominent representatives of extreme professional authority. The legacy of their scientific results, teaching, and applied activities constitutes a notable contribution to the productive development and progress of the European Colloid and Interface Society.



Hans Lyklema

1930 - 2017



Dotchi Exerowa

1935- 2017



Dimo Platikanov

1936- 2017



Kåre Larsson

1937 -2018



Helmuth Moehwald

1946 - 2018



Ivan B. Ivanov

1935 - 2018



Johannes (Hans) Lyklema passed away on 31st October 2017. He obtained his PhD in Utrecht, The Netherlands, under the supervision of Prof. Overbeek. After that he went to Los Angeles to work with Prof. Mysels and returned to The Netherlands to become Head of the Department of Physical and Colloid Chemistry at Wageningen University (in 1962). He retained this position till his retirement in 1995 but remained active after that. Hans Lyklema will largely be remembered because of his general knowledge of physical chemistry as laid down in the Fundamentals of Interface and Colloid Science. He created an enormous network of people with which he effectively put Wageningen on the map of important colloid and interface science institutes. In his later life, his concern for the environment was especially remarkable, after becoming an active member of the Dutch Footprint Club. Hans was one of the founding fathers of the International Association of Colloid and Interface Scientists (IACIS), for which he was the Newsletter Editor for many years.



The scientific interests of **Dotchi Exerowa** focused mostly on the physical chemistry of thin liquid foam and emulsion films, and foams and emulsions from surfactant and polymer solutions, including pulmonary surfactants. She developed an in vitro model of the lung alveolus and diagnostic methods for respiratory distress of new-borns, which are widely in use today. She was a professor at the Institute of Physical Chemistry (Bulgarian Academy of Sciences, Sofia), Head of the Department of Colloid and Interface Science (1982–2005) at the same institute, and a Full Member of the Bulgarian Academy of Sciences. Throughout the years she was a supervisor to many students, thus introducing scores of young people to the world of research on thin liquid film studies. She is a co-author of two books entitled Foam and Foam Film (Khimia, Moscow, 1990 and Elsevier, 1998), as well as of a number of book chapters. Besides being a Section Editor in the journal Current Opinion in Colloid and Interface Science, she was a member of the Editorial Boards of several other journals as well.



The scientific interest of **Dimo Platikanov** focused mostly on the physical chemistry of thin liquid foam and wetting films, liquid interfaces, wetting phenomena, surfactants, including polymeric and pulmonary surfactants. He was a professor at the University of Sofia, Head of the Department of Physical Chemistry (1989–2000), and a president of the International Association of Colloid and Interface Scientists (IACIS, 2000–2003). Together with Dotchi Exerowa, he was a co-editor of the book *Highlights in Colloid Science* (Wiley-VCH, 2009) and a co-author of one of its chapters, as well as of chapters in the books *Fundamentals of Interface and Colloid Science, Vol.5* (Ed. Lyklema, Elsevier, 2005), *Emulsions and Emulsion Stability* (Ed. Sjöblom, CRC–Taylor&Francis, 2006), *Nanoscience: Colloidal and Interfacial Aspects* (Ed. Starov, CRC–Taylor&Francis, 2010), and *Colloid and Interface Science in Pharmaceutical Research and Development* (Eds. Ohshima and Makino, Elsevier, 2014). He was also a member of the Editorial Boards of several journals.



Kåre Larsson passed away on 25th March 2018. He was an incredibly gifted and innovative scientist, and an inspiring mentor and teacher. His academic career started with a licentiate degree in inorganic crystallography at Uppsala University. Kåre then moved to work at Gothenburg University, where he did his pioneering work in determining the crystal structures of fats. Those findings are still in use today to control and optimize fat crystallization in food industry. In 1975 he was appointed Professor of Food Technology at Lund University, where he had been successfully applying his scientific expertise and innovation to multiple problems in the areas of food, pharmaceuticals, and chemicals. He established strong collaborations with the industry, both nationally and internationally, working as a scientist, senior advisor, or board member for many successful companies such as Berol Kemi (today a part of Akzo Nobel), Procter & Gamble, and Karlshamn (today AarhusKarlshamn, AAK). His discovery of bicontinuous phases and non-Euclidean geometries in lipid systems started a revolution in biology and a conceptual leap of profound importance. Later on he realized that these structures could be dispersed into functional lipid nanoparticles, so-called cubosomes, which also became the origin of pharmaceutical company Camurus (CAMX: Nasdaq STO) that he co-founded.



Helmut M \ddot{o} hwald died on 27th March 2018 at the age of 72. The professional contributions of this eminent professor are countless. His research covered the assembly of molecules into monolayers, the fabrication and analysis of functional organic multi-layers, as well as the design of microcapsules and their application in areas of technology, pharmacy and medicine. He played a significant role in the young history of Max Planck Institute of Colloids and Interfaces, which was founded 25 years ago. From 1993 until his retirement in 2014, M \ddot{o} hwald was a director and a scientific member of the institute in the Science Park Potsdam-Golm. From 2014 until his death he had been leading an emeritus group there. He held Honorary Professorships at the University Potsdam (since 1995), at Zhejiang University in Hangzhou (since 2001), Fudan University in Shanghai (since 2004), at the Institute of Chemistry at the Chinese Academy of Sciences (since 2006), and at the Institute of Process Engineering at the Chinese Academy of Sciences (since 2014). Moreover he was Head of the German Colloid Society (2003–2007) and president of the European Colloid and Interface Society (ECIS, 2002–2003).



Professor **Ivan B. Ivanov** passed away in Sofia on 15th May 2018 at the age of 82. He was a remarkable scientist working in the field of colloid and interface science with basic contributions to physicochemical hydrodynamics, and thermodynamics of thin liquid films and fluid disperse systems – foams, emulsions and suspensions. His other important contributions are in the fields of capillary forces between particles in liquid films, charge of emulsion drops, properties of protein stabilized emulsions and Pickering emulsions, and on the origin of dilatational surface viscosity. He was Dean of the Faculty of Chemistry of Sofia University (1979–1986) and founded the Laboratory of Thermodynamics and Physicochemical Hydrodynamics (1983), now Department of Chemical and Pharmaceutical Engineering. He was an inspiring lecturer who drew the students' attention to the fascinating world of physical and colloid chemistry, provoked their curiosity, and awakened their striving for scientific knowledge.

Programme

SUNDAY	
	Grand Hotel Union
17:00-20:00	Registration
18:30-	Welcome reception

	Union Hall			
8:45	Opening Ceremony			
Chair	Danino Dganit			
9:00	PL1 Kumacheva Eugenia			
9:45	Coffee Break			
	Union Hall	Glass Hall	White Hall	Silver Room
Chair	Briscoe H. Wuge	Hansson Per	von Klitzing Regine	Emelyanenko Alexandre
10:15	KN1.1 Voets Ilja	KN2.1 Hiorth Marianne	KN3.1 Fameau Anne-Laure	KN4.1 Delgado-Buscalloni Rafael
10:45	OP1.1 Demé Bruno	OP2.1 Faure Chrystel	OP3.1 Das Mohan	OP4.1 Rigoni Carlo
11:05	OP1.2 Fujinami Masanori	OP2.2 Pedersen Jannik	OP3.2 Dubois Emmanuelle	OP4.2 Yao Yang
11:25	OP1.3 Gresham Isaac	OP2.3 Morsbach Svenja	OP3.3 Feng Yujun	OP4.3 Petekidis George
11:45	OP1.4 Zemb Thomas	OP2.4 Malekchiaiat Häffner Sara	OP3.4 Grein Iankovski Aline	OP4.4 Welling Tom
12:05	OP1.5 Schulte Marie Friederike	OP2.5 Sarra Angelo	OP3.5 Sedaghat Doost Ali	OP4.5 Wrede Oliver
12:30	Lunch			
Chair	Isa Lucio	Galantini Luciano	Xenakis Aristoteles	Dan-Florin Anghel
14:00	KN1.2 Braunschweig Björn	KN2.2 Monduzzi Maura	KN3.2 Shafiq Mohamad Danial	KN5.1 Vamvakaki Maria
14:30	OP1.6 Valtiner Markus	OP2.6 Haramus Vasył	OP3.6 Waggett Franceska	OP5.1 Hu Minghan
14:50	OP1.7Slastanova Anna	OP2.7 Giacomelli Fernando Carlos	OP3.7 Bordes Romain	OP5.2 Pajor-Świerzy Anna
15:10	OP1.8 Orsi Davide	OP2.8 Ocwieja Magdalena	OP3.8 Bressel Katharina	OP5.3 Rossner Christian
15:30	OP1.9 Tummino Andrea	OP2.9 Pashirova Tatiana	OP3.9 Bryant Gary	OP5.4 Kralj-Iglič Veronika
15:50	OP1.10 Prescott Stuart	OP2.10 Zidar Jernej	OP3.10 Lozada-Cassou Marcelo	OP5.5 Thiele Julian
16:10	Coffee Break sponsored by MDPI			
Chair	Zapotoczny Szczepan	Zidar Jernej	Walderhaug Harald	Kralchevsky Peter
16:40	KN1.3 Zanini Michele	KN2.3 Lopez-Cabarcos Enrique	KN5.2 Claesson Per	KN6.1 Jemec Kokalj Anita
17:10	OP1.11 Slavchov Radomir	OP2.11 Vollmer Doris	OP5.6 Liu Wendong	OP6.1 Proposito Paolo
17:30	OP1.12 Shiraz Hana	OP2.12 Mohammadtaheri Mahsa	OP5.7 D'Errico Gerardino	OP6.2 Kroflić Ana
17:50	OP1.13 Taylor Nicholas	OP2.13 Boyd Hannah	OP5.8 Schenk Anna	OP6.3 Gentile Luigi
18:10	OP1.14 Camerin Fabrizio	OP2.14 Schofield Zoe	OP5.9 Buckley Philip	OP6.4 Kolman Krzysztof
18:30	OP1.15 Thiyam Priyadarshini	OP2.15 Lundberg Dan	OP5.10 Chambon Lucille	OP6.5 Fiedler Johannes
18:50-20:20	Poster Session A			



Eugenia Kumacheva, University of Toronto, Canada
Bridging the gap between molecules and nanoparticles

The concept of “colloidal molecules” builds on the analogy between colloidal particles and molecules. For about a hundred years, colloidal particles have been utilized to model the behavior of atoms or molecules. Recently, this approach has been reversed: reactions between molecules are now being used to model nanoparticle self-organization. In particular, polymer science offers unique strategies to address the challenges in nanoparticle assembly.

By using lessons of polymer physics and chemistry, we develop new paradigms for nanoparticle patterning and self-organization. A surface-pinned micelle approach has been utilized to create “colloidal molecules” [1,2]. A striking resemblance between block copolymers and amphiphilic nanoparticles enabled nanoparticle assembly in nanostructures with varying morphologies, all mapped by state diagrams. A marked similarity between step-growth polymerization and nanoparticle self-assembly enabled growth of nanopolymers, with a quantitative prediction of the architecture of linear, branched, and cyclic nanostructures, their aggregation number and size distribution, as well as the formation of isomers [3]. Building on this similarity, we proposed the concept of colloidal chain stoppers [4], as well as random and block copolymers [5].

This work has far-reaching implications for the molecular world (by offering simple, easy to visualize nanoscale models for polymerization reactions), and for the nano-world (by providing a polymer approach to nanostructures with structure-dependent electronic, optical, and magnetic properties).

[1] R. M. Choueiri et al. *Nature* 2016, 538, 79.

[2] E. Galati et al. *ACS Nano* 2017, 23, 4995.

[3] K. Liu et al. *Science* 2010, 329, 197.

[4] A. Klinkova et al. *Proc. Nat. Acad. Sci. U.S.A.* 2013, 110, 18775.

[5] K. Liu et al. *Angew. Chem. Int. Ed.* 2014, 53, 2648.

List of Keynote Speakers for Monday

KN1.1	Voets Ilja , Eindhoven University of Technology, The Netherlands Illuminating interfaces in soft matter by single-molecule localization microscopy	KN3.1	Fameau Anne-Laure , INRA, Nantes, France Nanocapillary bridging of particles to design ultra-flexible magnetic chains and colloidal networks
KN1.2	Braunschweig Björn , Westfälische Wilhelms University Münster, Germany Smart Air-Water Interfaces with Arylazopyrazole Surfactants and their Role in Photoresponsive Aqueous Foam	KN3.2	Shafiq Mohamad Danial , University of Bristol, United Kingdom Evaporation of drops: The role of long-range colloidal interactions
KN1.3	Zanini Michele , Utrecht University, The Netherlands Rough particles at fluid interfaces	KN4.1	Delgado-Buscalloni Rafael , UAM Madrid, Spain Strong enhancement of the collective diffusion of quasi twodimensional systems: trapped colloids and membrane lipids
KN2.1	Hiorth Marianne , University of Oslo, Norway The potential of improving oral health with liposomes and polymer-coated liposomes	KN5.1	Vamvakaki Maria , University of Crete, Greece Stimuli-responsive core-shell, hollow and Janus hybrid Nanoparticles
KN2.2	Monduzzi Maura , University of Cagliari, Monserrato, Italy Mesoporous silica nanoparticles for smart drug depot nanocarriers	KN5.2	Claesson Per , KTH Royal Institute of Technology, Stockholm, Sweden From surface forces and friction to local surface nanomechanical and wear properties
KN2.3	Lopez-Cabarcos Enrique , University Complutense Madrid, Spain DNA/RNA oligonucleotides detection using upconverting nanoparticles	KN6.1	Jemec Kokalj Anita , University of Ljubljana, Slovenia Nanomaterials in the environment: application and nanosafety

MONDAY - MORNING		
08:45	Opening Ceremony	
09:00	Union Hall, Chair: Danino Dganit PL1 Kumacheva Eugenia Bridging the Gap between Molecules and Nanoparticles	
09:45	Coffee Break	
	Topic 1 – Union Hall Chair: Briscoe H. Wuge	Topic 2 – Glass Hall Chair: Hansson Per
10:15	KN1.1 Voets Ilja Illuminating interfaces in soft matter by single-molecule localization microscopy	KN2.1 Hiorth Marianne The potential of improving oral health with liposomes and polymer-coated liposomes
10:45	OP1.1 Demé Bruno Role of glycolipids in higher plants: A surface force study combining neutron diffraction on multilayer lipid membranes and MD simulations	OP2.1 Faure Chrystel Study of insecticide-loaded multilamellar liposomes diffusion through artificial skin membranes: effect of key parameters.
11:05	OP1.2 Fujinami Masanori Experimental approach of the self-propelled motion of a sodium oleate tablet and boat at an oil-water interface	OP2.2 Pedersen Jannik SAXS Characterization of liposomal formulations to treat Fabry Disease
11:25	OP1.3 Gresham Isaac Structural resolution of responsive polymer brushes with neutron reflectometry: findings, limitations and a model-free Monte Carlo analysis method	OP2.3 Morsbach Svenja Unravelling interaction mechanisms between lipoproteins and nanocarriers: the biomolecule corona
11:45	OP1.4 Zemb Thomas A new ultrasensitive acousto-optic method to study liquid-liquid interfaces	OP2.4 Malekhaia Häffner Sara Membrane interactions of nanoclay particles as carriers of antimicrobial peptides
12:05	OP1.5 Schulte Marie Friederike Inner Structure Information and Mechanical Properties of Responsive Microgels Adsorbed at Solid Interfaces by SFM	OP2.5 Sarra Angelo Study of membrane phase transition in bacterial vesicles
12:30	Lunch	

MONDAY - MORNING		
08:45	Opening Ceremony	
09:00	Union Hall, Chair: Dganit Danino PL1 Kumacheva Eugenia Bridging the Gap between Molecules and Nanoparticles	
09:45	Coffee Break	
	Topic 3 – White Hall Chair: von Klitzing Regine	Topic 4 – Silver Room Chair: Emelyanenko Alexandre
10:15	KN3.1 Fameau Anne-Laure Nanocapillary bridging of particles to design ultra-flexible magnetic chains and colloidal networks	KN4.1 Delgado-Buscalloni Rafael Strong enhancement of the collective diffusion of quasi twodimensional systems: trapped colloids and membrane lipids
10:45	OP3.1 Das Mohan Dynamics, structure and stresses in repulsive glasses and attractive gels of colloidal rods	OP4.1 Rigoni Carlo Dynamics of sessile ferrofluid drops
11:05	OP3.2 Dubois Emmanuelle Tuning the properties of colloidal dispersions by playing on the nanoparticles' interface and on the solvent	OP4.2 Yao Yang Dynamics of Capillary Imbibition of Poly(ethylene oxide) Melts in Nanoporous Alumina
11:25	OP3.3 Feng Yujun Viscoelastic Surfactants: Boost Applications in Harsh Environment	OP4.3 Petekidis George Microscopic origin of flow in attractive colloidal glasses under shear
11:45	OP3.4 Grein Iankovski Aline Surface modification of magnetic nanoparticles through spontaneous segregation of binary polymer mixtures aiming at Janus character	OP4.4 Welling Tom 3D mobility of nanoparticles studied with liquid cell STEM
12:05	OP3.5 Sedaghat Doost Ali Designing nano-colloidal dispersion of thymol as a potential natural antioxidant	OP4.5 Wrede Oliver Swelling kinetics of N-n-propylacrylamide based microgels upon periodic pressure jumps investigated by time-resolved Small Angle Neutron Scattering
12:30	Lunch	

MONDAY - EARLY AFTERNOON		
	Topic 1 – Union Hall Chair: Isa Lucio	Topic 2 – Glass Hall Chair: Galantini Luciano
14:00	KN1.2 Braunschweig Björn Smart Air-Water Interfaces with Arylazopyrazole Surfactants and their Role in Photoresponsive Aqueous Foam	KN2.2 Monduzzi Maura Mesoporous silica nanoparticles for smart drug depot nanocarriers
14:30	OP1.6 Valtiner Markus Interfacial structuring of ionic liquids in the presence of water: From neat liquids to aqueous solutions	OP2.6 Haramus Vasył pH-responsive mesoporous silica nanoparticles dual-modified with "gatekeeper" biopolymers for drug delivery
14:50	OP1.7 Slastanova Anna Interactions of anionic surfactants with cationic vesicles under confinement	OP2.7 Giacomelli Fernando Carlos Nanoparticle-Cell Interactions: Surface Chemistry Effects on the Cellular Uptake of Biocompatible Block Copolymer Assemblies
15:10	OP1.8 Orsi Davide Emulsion stability at minimal surfactant concentrations: a multiscale study	OP2.8 Ocwieja Magdalena Silver nanoparticle monolayers of tunable structure, stability and charge
15:30	OP1.9 Tummino Andrea Controlling the formation of surface active material reservoirs in spread polyelectrolyte/surfactant films at the air/water interface	OP2.9 Pashirova Tatiana Oximes-loaded lipid nanoparticles for brain protection and treatment of organophosphorus poisoning
15:50	OP1.10 Prescott Stuart Adsorbed macromolecules as steric stabilisers at the oil/water interface: specific ion effects and complexation with surfactants	OP2.10 Zidar Jernej Probing surfactant membrane interactions with molecular dynamics simulations
16:10	Coffee Break sponsored by 	

MONDAY - EARLY AFTERNOON		
	Topic 3 – White Hall Chair: Xenakis Aristoteles	Topic 5 – Silver Room Chair: Dan-Florin Anghel
14:00	KN3.2 Shafiq Mohamad Danial Evaporation of drops: The role of long-range colloidal interactions	KN5.1 Vamvakaki Maria Stimuli-responsive core-shell, hollow and Janus hybrid Nanoparticles
14:30	OP3.6 Waggett Francesca Long-range electrostatic attraction between like-charge colloids	OP5.1 Hu Minghan Anisotropic Superparamagnetic Supraparticles Prepared by Controlled-Evaporation of Nanoparticle Suspensions
14:50	OP3.7 Bordes Romain Controlling flocculation with carbamate-based surfactant	OP5.2 Pajor-Świerzy Anna Optimization of method of synthesis of nickel nanoparticles with silver nanoshell for conductive materials
15:10	OP3.8 Bressel Katharina Kinetics of Depletion Flocculation in Concentrated Emulsions	OP5.3 Rossner Christian cRAFTing nanomaterials: tailored structural and dynamic properties of hierarchical nanoparticle arrangements by controlling polymeric Architecture
15:30	OP3.9 Bryant Gary Characterization of turbid colloidal suspensions using differential dynamic microscopy (DDM)	OP5.4 Kralj-Iglič Veronika Multifunctional mesoporous gadolinium-enriched TiO ₂ microspheres can be simultaneously used for cancer diagnosis and treatment
15:50	OP3.10 Lozada-Cassou Marcelo Oversized and very long-ranged electric and entropic forces in colloidal dispersions at finite concentration	OP5.5 Thiele Julian Design of microscopic polymer materials by droplet microfluidics and additive manufacturing for cell-free biotechnology
16:10	Coffee Break sponsored by 	

MONDAY - LATE AFTERNOON		
	Topic 1 – Union Hall Chair: Zapotoczny Szczepan	Topic 2 – Glass Hall Chair: Zidar Jernej
16:40	KN1.3 Zanini Michele Rough particles at fluid interfaces	KN2.3 Lopez-Cabarcos Enrique DNA/RNA oligonucleotides detection using upconverting nanoparticles
17:10	OP1.11 Slavchov Radomir Cohesive and non-cohesive adsorption of surfactants at liquid interfaces	OP2.11 Vollmer Doris Sub-micrometer sized roughness suppresses bacteria adhesion
17:30	OP1.12 Shiraz Hana Preparation of novel film-forming armoured latexes using colloidal nanosilica as a pickering emulsion stabiliser	OP2.12 Mohammadtaheri Mahsa Antimicrobial peptide/glycerol monooleate self-assemblies
17:50	OP1.13 Taylor Nicholas Linking molecular architecture and interfacial structure to the lubrication mediated by oil-soluble copolymer additives	OP2.13 Boyd Hannah How are salivary pellicles affected by surfactants of different ionic character?
18:10	OP1.14 Camerin Fabrizio In silico modelling of microgels in bulk and at interfaces	OP2.14 Schofield Zoe A Microfluidic Approach to Model Deep Vein Thrombosis
18:30	OP1.15 Thiyam Priyadarshini Control of the sign and magnitude of Casimir-Lifshitz torque by material manipulation and intervening liquid medium	OP2.15 Lundberg Dan Liquid crystalline phases as phantoms for validation of in vivo diffusion MRI methods
18:50-20:20	Poster Session A: Topics 5, 6, 7, 11	

MONDAY - LATE AFTERNOON		
	Topic 5 – White Hall Chair: Walderhaug Harald	Topic 6 – Silver Room Chair: Kralchevsky Peter
16:40	KN5.2 Claesson Per From surface forces and friction to local surface nanomechanical and wear properties	KN6.1 Jemec Kokalj Anita Nanomaterials in the environment: application and nanosafety
17:10	OP5.6 Liu Wendong Liquid repellent surface mediated fabrication of superparticles	OP6.1 Proposito Paolo Fluorescent silver nanoclusters as optical sensors for heavy metal ions in water
17:30	OP5.7 D'Errico Gerardino Bio-inspired functional polyphenolic materials: meso- and nanoscopic determinants of the antioxidant activity	OP6.2 Kroflič Ana On the role of surface active substances in atmospheric aerosols
17:50	OP5.8 Schenk Anna Curl it up: Structure-directing polyelectrolytes aid the formation of polymer/mineral composite micro scrolls	OP6.3 Gentile Luigi Fungi as regulators of colloidal soil organic matter
18:10	OP5.9 Buckley Philip Controlled crystallisation using microemulsions	OP6.4 Kolman Krzysztof Aggregation of nanoparticles in presence of organic molecules and ions – experiment and simulation
18:30	OP5.10 Chambon Lucille Hollow rods of high aspect ratio	OP6.5 Fiedler Johannes Medium-assisted dispersion forces
18:50-20:20	Poster Session A: Topics 5, 6, 7, 11	

Poster Session A

PP5.1	Kumar Jan	Release of spores from electrospun polyethylene oxide and chitosan/polyethylene oxide nanofibers
PP5.2	Bastrzyk Anna	Calcium carbonate porous microstructures biosynthesis: kinetic studies
PP5.3	Dragar Črt	Development of magnetically-responsive SPION-based nanospheres for drug delivery
PP5.4	Fajt Patricija	Development and characterization of hydrophilic polymer nanofibers with lipids as a delivery system for poorly water-soluble drugs
PP5.5	Wierzba Patrycja	Comparison of cellulose-based filter surface modification methods with MTMS-aerogel structures
PP5.6	Tomšič Matija	Structural and morphological properties of SiO ₂ mesoporous materials with a range of pore diameters and volumes
PP5.7	Špadina Mario	Charge properties of TiO ₂ nanotubular structures in low salt aqueous solutions
PP5.8	Balažic Helena	Polysaccharide nanofibers - effect of high molecular weight poly(ethylene oxide) addition on electrospinnability
PP5.9	Meroni Daniela	Phosphonic acids as selective functionalizing agents: a study on halloysite surface modification based on model oxides
PP5.10	Kruk Tomasz	Hybrid polyelectrolyte films with embedded nano-objects as the antibacterial coatings
PP5.11	Fernandez-Barbero Antonio	Tuneable photonic properties of particle-in-cavity nanostructures
PP5.12	Søgaard Christian	Stability of silica nanoparticle gels
PP5.13	Ishikawa Shunho	Sub-micron core-shell silica particles as a new generation for HPLC application
PP5.14	Eiler Johannes	Structural assessment of natural filler/polymer composites utilising their water diffusion coefficient
PP5.15	Kuznetsova Anastasia	Structural and electrosurfase properties of iron - containing nanoporous glasses in KNO ₃ solutions
PP5.16	Kosmulski Marek	Uptake of vapor of FeCl ₃ by porous silica
PP5.17	Arai Shiori	Synthesis of fluorescently-labelled magnetic composite particles using double electrostatic heterocoagulation
PP5.18	Čakánek Peter	Molecular dynamics simulations of interactions between carbon nanotube coated with poly(ethylene oxide) and oligopeptides

PP5.19	Kim Mun Ho	Green Synthesis and Catalytic Properties of Hollow Polystyrene Microparticles Covered with Bimetallic Nanocrystals
PP5.20	Kim Mun Ho	Single-step synthesis of hollow dimpled polystyrene microparticles
PP5.21	Toca-Herrera José Luis	Tuning the antifouling activity of bacterial S-layers by means of controlled degradation.
PP5.22	Ruphuy Gabriela	Encapsulation of low-water soluble drugs in yeast-derived beta glucan microparticles by spray drying
PP5.23	Lattuada Marco	Preparation and characterization of magnetic microrods and their use in the reinforcement of polymeric material
PP5.24	Cinar Simge	A novel scalable method for synthesis of metallic anisotropic particles
PP5.25	González Antonio	Optical Characterization of Anisotropic Thiophene-Phenylene Co-oligomer Micro Crystals by Spectroscopic Imaging Ellipsometry
PP5.26	Ježková Martina	Preparation of gold nanoclusters, their characterization and application
PP5.27	Illés Erzsébet	Graphene Oxide/Magnetite Nanocomposites for biomedical application: heterocoagulation vs. heterogenous nucleation
PP5.28	Ugur Saziye	A Study on Film Formation and Fluorescence Enhancement of Silver Nanoparticle Doped Polymer Composites
PP5.29	Šoóš Miroslav	Macroporous polymer-supported ionic liquid like system for enzymatic catalysis
PP5.30	Voelker Andreas Charles	Advanced Light Scattering techniques for the characterization of nanostructures
PP5.31	Piosik Emilia	Interactions of functionalized magnetite nanoparticles with phospholipids in models of biological membrane
PP5.32	Buchsbaum Julia	Preparation of hierarchically structured microsieves for filtration processes
PP5.33	Wahab Mirco	Water Adsorption Induced Forces and Volume Change in Cementitious Materials with Slit-Micropores
PP5.34	Muráth Szabolcs	From delamination to sol-gel synthesis: the role of organic molecules in LDH formation
PP5.35	Lange Tobias	Modification of imogolite with alkylphosphonic acid: a new hybrid lamellar phase
PP5.36	Kang Kyoung-Ku	Preparation of Heterogeneous Catalyst Containing Palladium Nanoparticles Incorporated in Hydrogel Microparticles
PP5.37	Shiraishi Yukihide	CNT/Pd Nanocolloids/Poly(vinyl chloride) Hybrid Thermoelectric Materials for Energy Conversion
PP5.38	Gyergyek Sašo	Hierarchical multiphase magnetically separable Ru-based nanocomposites for the catalytic hydrogenation/hydro-deoxygenation of eugenol
PP5.39	Watanabe Kanako	Rattle-type colloidal crystals incorporating a movable silica/titania core developed for switchable materials

PP5.40	Smykov Igor	Electron-beam induced growth of organic 3D nanodendrites on the meteorite surface
PP5.41	Wiercigroch-Walkosz Katarzyna	Fluorescent nanoparticles coated with mesoporous silica shell with tunable shell thickness and pore size distribution
PP5.42	Kwon Oh Hyeong	Effective Bone Tissue Engineering Using Silk Fibroin Nanofiber/PGA Hybrid Scaffolds Fabricated by Electrospinning and 3D Printing Techniques
PP5.43	Spasojević Ljiljana	Preparation of edible, barrier films from zein nanoparticle dispersions in water
PP6.1	Poteč Karolina	The studies on the possibility of the application of the hops essential oil as ecological pesticide.
PP6.2	Poteč Karolina	The influence of PAH molecules on model <i>Bacillus subtilis</i> bacteria membrane
PP6.3	Ray Santanu	Versatile applications of X-ray Photoelectron Spectroscopy (XPS) in the fields of Geology and Environmental Sciences
PP6.4	Grilc Nina	Following the layer-by-layer polyelectrolyte coating of bacterial cells using STED microscopy
PP6.5	Wójcik Aneta	Interaction of perfluorotelomer alcohol and fluorocarbons with model decomposer membranes
PP6.6	Wójcik Aneta	Studies of the interactions between polychlorinated pesticides and model decomposers membranes
PP6.7	Wójcik Aneta	Investigation on the influence of polycyclic aromatic hydrocarbons incorporation into model biological membranes on phospholipase A2 activity
PP6.8	Chevalier Yves	Molecularly imprinted polymers for specific adsorption of Patulin toxin
PP6.9	Amerkhanova Shamshiya	The adsorbent based on the wastes of the heat power plants for concentration of heavy metal ions and phenol from industrial wastewaters
PP6.10	Ahn Wha-Seung	Gd ³⁺ adsorption over a mesoporous silica foam functionalized with poly(amidoamine) dendrimer
PP6.11	Takeshita Chihiro	Specific monovalent anion effects on aggregation of allophane nanoparticles
PP6.12	Jurić Slaven	Bioencapsulation as a sustainable targeted agricultural delivery of bioactive agents in the conventional cultivation of <i>Lactuca sativa L.</i>
PP6.13	Rebiscoul Diane	Evolution of the surface of silica nanoconfined media
PP6.14	Žener Boštjan	Effects of doping on photocatalytic activity of titania thin films
PP6.15	Valente Artur	Sorption of phytopharmaceutical compounds by chitosan-based blend materials
PP6.16	Azar Elise	Remove surfactants by adding porous colloids at the interface
PP6.17	Okada Kazuya	Brownian dynamics simulations on sedimentation behaviour of a dispersion composed of spherical and rod-like particles

PP6.18	Kim Jeong-Hoon	Preparation of pore-filled composite-type cation and anion exchange membranes and their electro dialysis properties for water purification
PP6.19	Szynyska Alla	Understanding of Icing Phenomena on Particle-based Heterogeneous Surfaces
PP6.20	Szynyska Alla	Understanding the Immobilization of Nanocatalysts onto Hybrid Isotropic and Janus Particles for Catalysis at Interfaces
PP7.1	Hartl Benedikt	On the self-assembly capacities of ionic liquid crystals
PP7.2	Zablotsky Dmitry	Microstructural characterization of dipolar building block assemblies
PP7.3	Matejcek Pavel	Total description of COSAN aggregation: Calorimetry study and NMR probing
PP7.4	Cautela Jacopo	Sphere-Tubule Superstructures through Supra -Molecular and -Colloidal Assembly Pathways
PP7.5	Koumakis Nick	Self-assembly and transport of motile bacteria with light
PP7.6	Hudi Vita	The molecular modelling and QSAR of Ebola VP35 inhibitors
PP7.7	Kuhar Jure	Viscosity B-coefficients of imidazolium based surface active ionic liquids in water
PP7.8	Pogorelc Eva	Density and viscosity of aqueous solutions of functionalized quaternary octylammonium surfactants
PP7.9	Matulja Dario	Self-assembly of weakly acidic photoactive dyes in aqueous solution at varied pH and ionic strength
PP7.10	Chevalier Yves	Cationic cyclodextrin as counterion of anionic surfactants
PP7.11	Rosenberg Margaret	Self-assembly of hollow colloidal silica cubes
PP7.12	Herman Katherine	Silica Coating of Tubular J-aggregates in Aqueous Solution
PP7.13	Kosior Dominik	Formation and Stability of Silica Nanoparticle Monolayers at Macroion (PAH)-modified Mica
PP7.14	Karg Matthias	Emission properties of fluorophores in plasmonic superlattices
PP7.15	Zapotoczny Szczepan	Robust multilayer nanocoatings based on ionic silicones
PP7.16	Sasidharan Sreeja	Stabilization of the gel phase of lipid bilayers by acetic acid and mononucleotides
PP7.17	Tomšič Matija	Supramolecular assembly in tert-butyl alcohol/water mixtures
PP7.18	Spindler Lea	Self-assembly of guanine-rich oligonucleotides into G-wires
PP7.19	Cerar Jure	Supramolecular assembly in terminal 1,n-diols
PP7.20	Lee Yuh-Lang	Self-Assembly of 3,4-ethylenedioxythiophene and the Surface polymerization of the Adsorption Monolayer on an Au(111) Surface

PP7.21	Hriberšek Patricija	Effect of temperature on self-assembly of poly(methacrylic acid) chains in the presence of multivalent counterions
PP7.22	Sugai Jun	Electrochemical control of viscosity of aqueous solutions of gemini surfactant having ferrocenyl groups
PP7.23	Clinckspoor Karl Jan	Wormlike micelles of alkyltrimethylammonium bromide-sodium salicylate in different aqueous binary systems
PP7.24	Mileva Elena	Self-assembled nanostructures in aqueous solutions of antennary peptides
PP7.25	Elstone Naomi	Mixtures of Amino Acid Based Surfactants
PP7.26	Lue Leo	Structure and cluster formation in size asymmetric soft electrolyte systems
PP7.27	Efthymiou Christina	Investigating the self-assembly process of amphiphilic drugs using scattering techniques
PP7.28	Morga Maria	Formation and stability of hematite/silver nanoparticle bilayers at mica: AFM and electrokinetic characteristics
PP7.29	Durand-Vidal Serge	Transport properties of decanoates as a function of counterions and temperature: Experiment and theory
PP7.30	Miravet Juan	Self-assembly of low molecular weight organic compounds into stable nanohydrogel particles
PP7.31	Kabi Prasenjit	New aspects of patterning via evaporation of colloidal drops
PP7.32	Fameau Anne-Laure	Fatty acid self-assemblies in the presence of choline hydroxide: effect of the molar ratio
PP7.33	Dai Bin	Investigation of quaternized chitosan-alkylethoxy carboxylate based complexes
PP7.34	Kabi Prasenjit	Effect of particle size on pattern deposition
PP7.35	Pandey Keshav	Effects of vapor mediated interactions on the evaporation dynamics of confined sessile droplets
PP7.36	Pandey Keshav	Insights into evaporation dynamics of an interacting three droplet system
PP7.37	Kabi Prasenjit	Tailoring particle assemblies using substrate oscillated sessile drops
PP7.38	Sedaghat Doost Ali	Self-assembly of biopolymer nanocomplexes of almond gum and whey protein isolate
PP7.39	Kasaikina Olga	Mixed micelles of cationic surfactants with hydroperoxides as a soft catalytic nanoreactor of free radical generation
PP7.40	Kashapov Ruslan	Controlling the binding of hydrophobic drugs with supramolecular assemblies based on native cyclodextrins and CTAB
PP7.41	Kashapov Ruslan	Construction of nanocontainers through the self-assembly of supramolecular amphiphiles based on calix[4]arenes and surfactants
PP7.42	Yapici Filiz	Impact of Surfactants on the Dynamics of the Gelation Process of Low Molecular Weight Hydrogellants

PP7.43	Szabelski Paweł	Self-assembly at interfaces: Probing molecular superstructures with computer simulations
PP7.44	Surov Oleg	Polyvinylpyrrolidone assisted self-assembly of cellulose nanocrystals resulted in nanorods with high aspect ratio
PP7.45	Zemb Thomas	Entanglements, Gliding Connections and End-Caps control Viscosity of Concentrated Giant Reverse Micelles
PP7.46	Vraneš Milan	Aggregation Behaviour of New Thiazolium-Based Surface-Active Ionic Liquids and Salts – experimental and DFT study
PP11.1	Čobanov Isidora	Effect of cationic structure on the micellization of surface active ionic liquids: A thermodynamic study
PP11.2	Šarac Bojan	Influence of hydroxybenzoates on micellization of surface active imidazolium based ionic liquids
PP11.3	Cerar Janez	The law of matching water affinities – misinterpretation of specific ion effects
PP11.4	Fedotova Marina	Neurotransmitter acetylcholine in water: the futures of hydration
PP11.5	Simonsson Isabelle	Investigations on the co-ion effect of the surface charge and aggregation behavior of silica nanoparticles
PP11.6	Szczes Aleksandra	Static magnetic field influence on water
PP11.7	Bohinc Klemen	A mean field theory of solvent ordering around ions and surfaces
PP11.8	Požar Nino	Partial least squares regression for determining the dissociation constants from the UV-Vis spectra without calibration
PP11.9	Nakagawa Yasuharu	Hydration behavior of alcohols in aqueous solution as studied by dielectric relaxation measurements
PP11.10	Imai Yosuke	Counterion binding in the adsorbed film and micelle of dodecyltrimethylammonium bromide and bisdodecyltrimethylammonium sulfate mixture
PP11.11	Lo Nostro Pierandrea	Ion-specific effects on the Human Insulin fibrillation process
PP11.12	Dziadkowiec Joanna	Adhesive and repulsive forces between calcite surfaces
PP11.13	Alexandraki Savvoulla	Binding of lanthanide salts to phospholipid monolayers: Dramatic effects of the anionic ligands
PP11.14	Cerar Janez	Influence of salts on rheological properties of colloidal systems and its possible relation with Hofmeister series
PP11.15	Curtis Robin	A combined electrophoretic and light scattering approach to elucidate the molecular origin of reverse Hofmeister series effects
PP11.16	Trefalt Gregor	Charge Regulation and the Properties of the Stern Layer at the Solid-Liquid Interface: Ion Specific Effects
PP11.17	Chazapi Ioanna	Interactions of lyotropic anions with micelles of dodecyl phosphocholine
PP11.18	Friesen Sergej	Hydration and Counterion Binding of [C12MIM] Micelles
PP11.19	Sofroniou Constantina	Lanthanide salt adsorption on phospholipid micelles: Probing the role of the anion

	Union Hall			
Chair	Mileva Elena			
9:00	PL2 Solvay Prize Winner: Weller Horst			
9:45	Coffee Break			
	Union Hall	Glass Hall	White Hall	Silver Room
Chair	Lo Nostro Pierandrea	Gradzielski Michael	Mertelj Alenka	Katz Alexander
10:15	KN1.4 Gerelli Yuri	KN7.1 Olsson Ulf	KN5.3 di-Gregorio Maria Chiara	10:15 SS1 Abbott Nicholas
10:45	OP1.16 Michna Aneta	OP7.1 Byard Sarah	OP5.11 Hammond Oliver	10:45 SS2 Botto Lorenzo
11:05	OP1.17 Otoni Caio	OP7.2 Shaw James	OP5.12 Solomonov Aleksei	
11:25	OP1.18 Kumar Raj	OP7.3 Spiering Vivian Jeannette	OP5.13 Match Lev	11:15 SS3 Chaudhury Manoj
11:45	OP1.19 Dekker Riande	OP7.4 Hallez Yannick	OP5.14 Rouster Paul	
12:05	OP1.20 Gustafsson Emil	OP7.5 Novak Sanja	OP5.15 Doblas Jiménez David	11:45 SS4 Cramer Steven
12:30	Lunch			
Chair	Pekař Miloslav	Matějček Pavel	Varga Imre	Katz Alexander, Velev Orlin D.
14:00	KN1.5 Krejca Matthias M.	KN7.2 Schillén Karin	KN8.1 Tenhu Heikki	14:00 SS5 Danino Dganit
14:30	OP1.21 Allolio Christoph	OP7.6 Severoni Emilia	OP8.1 Hellweg Thomas	14:30 SS6 Garti Nissim
14:50	OP1.22 Rinaldin Melissa	OP7.7 Procházka Karel	OP8.2 Kanduč Matej	
15:10	OP1.23 Kamal Mohammad Arif	OP7.8 Matthews Lauren	OP8.3 Katyan Navneeta	15:00 SS7 von Klitzing Regine
15:30	OP1.24 Parra Elisa	OP7.9 Moreno Nicolas	OP8.4 Bitton Ronit	
15:50	OP1.25 Hoffmann Ingo	Op 7.10 Hartl Benedikt	OP8.5 Hansson Per	15:30 SS8 Katz Alexander
16:10	Coffee Break			
Chair	Paunov Vesselin	Schillén Karin	Rodríguez-Abreu Carlos	Abott Nicholas, Cramer Steven
16:40	KN1.6 Deguchi Shigeru	KN7.3 Karg Matthias	KN8.2 Andreozzi Patrizia	16:40 SS9 Raghavan Srinivasa
17:10	OP1.26 Schmitt Veronique	OP7.11 Hill Christopher	OP8.6 Tortora Maxime	17:10 SS10 Stebe Kathleen J.
17:30	OP1.27 Chevalier Yves	OP7.12 Rüter Axel	OP8.7 Matsushita Alan	
17:50	OP1.28 Gonzalez Ortiz Danae	OP7.13 Čejková Jitka	OP8.8 Mirtič Janja	17:40 SS11 Velev Orlin D.
18:10	OP1.29 Pascu Mihail-Lucian	OP7.14 Wang Junwei	OP8.9 Martínez Marta	18:10 SS12 Jaensson Nick
18:30	OP1.30 Kolarova Simona	OP7.15 Gröhn Franziska	OP8.10 Lehmann Maren	18: 40 SS13 Zemb Thomas
18:50-20:20	Poster Session B			



Horst Weller, University of Hamburg, Germany; Solvay Prize Winner

Quantum dots and other nanocrystals: from basic science to applications in materials and life sciences

Although nanocrystals are used already in many applications, the knowledge on their formation is still in its infancy. We will present results on the nucleation and growth of nanocrystals obtained from uv-vis spectroscopy and x-ray scattering data obtained in a rapid continuous flow apparatus and we will address examples of ion exchange processes.

Nanocrystals are currently used in many areas of materials science. We will present examples of nanocomposites with outstanding mechanical and thermal properties. Quantum dots are used for display and lighting applications. The talk describes the current status of their large-scale production and their fluorescence properties.

The key idea for using nanocrystals for biomedical diagnostics is to benefit from their outstanding physical properties in the visualization of biological events or malignant cells or tissues. This requires a special design of the ligand shell, which preserves the fluorescent, magnetic and plasmonic properties of the particles in the biological environment on one side and allows a specific targeting on the other. The lecture reports on different chemical approaches and describes factors determining the biological response on fully synthetic nanocrystals. We will highlight concepts based on PEGylation and show how small deviations in the ligand shell alter the behavior in biological environment substantially. Moreover, we will present combinatorial approaches for the functionalization of the nanocrystals with biological affinity molecules to improve targeting specificity and concepts to optimize the physical properties of the inorganic core to increase the sensitivity for the respective imaging techniques.

List of Keynote Speakers for Tuesday

KN1.4	Gerelli Yuri , Institut Laue - Langevin, Grenoble, France Slow lipid flip-flop revealed by neutron scattering experiments	KN7.1	Olsson Ulf , Lund University, Sweden Cellulose Self-Assembly
KN1.5	Krejca Matthias M. , Chemnitz University of Technology, Germany Gas permeation through Pickering membranes	KN7.2	Schillén Karin , Lund University, Sweden Mixed complex formation in thermoresponsive block copolymer-bile salt systems
KN1.6	Deguchi Shigeru , JAMSTEC, Yokosuka, Japan Continuous bottom-up production of nanoemulsions under conditions simulating deep-sea hydrothermal vents	KN7.3	Karg Matthias , Heinrich-Heine-University Duesseldorf, Germany Self-assembly of core/shell colloids at air/water interfaces
KN5.3	di Gregorio Maria Chiara , Institute of Science, Rehovot, Israel Control over morphology and complexity of metal organic frameworks	KN8.1	Tenhu Heikki , University of Helsinki, Finland Sweet and sour responsive gel nanoparticles
		KN8.2	Andreozzi Patrizia , CIC biomaGUNE, Donostia-San Sebastián, Spain Exploring the pH sensitivity of poly(allylamine) phosphate supramolecular nanocarriers for intracellular siRNA delivery

TUESDAY - MORNING		
09:00	Union Hall, Chair: Mileva Elena PL2 Weller Horst , Solvay Prize Winner Quantum dots and other nanocrystals: From basic science to applications in materials and life sciences	
09:45	Coffee Break	
	Topic 1 – Union Hall Chair: Schmitt Veronique	Topic 7 – Glass Hall Chair: Grdzielski Michael
10:15	KN1.4 Gerelli Yuri Slow lipid flip-flop revealed by neutron scattering experiments	KN7.1 Olsson Ulf Cellulose Self-Assembly
10:45	OP1.16 Michna Aneta Monolayers of poly(amido mine) dendrimers and poly(diallyldimethylammonium chloride) studied by in situ streaming potential measurements and AFM	OP7.1 Byard Sarah Unique aqueous self-assembly behavior of a new thermoresponsive diblock copolymer
11:05	OP1.17 Otoni Caio Strategies for functionalizing nanofibrillated cellulose and producing antimicrobial foam-like materials	OP7.2 Shaw James Programming hierarchical self-assembly of patchy particles into colloidal crystals via colloidal molecules
11:25	OP1.18 Kumar Raj Soft foams as acoustic gradient index metasurfaces	OP7.3 Spiering Vivian Jeannette Characterization of Self-Assembled Surface Active CO ₂ /EO Compounds in Aqueous Solution
11:45	OP1.19 Dekker Riande Emulsion destabilization by confinement	OP7.4 Hallez Yannick Nanoxerography Assisted by Convective Surface Assembly
12:05	OP1.20 Gustafsson Emil Understanding blood cell stabilization – Effect of plasticizer on lipid monolayers	OP7.5 Novak Sanja Self-assembly of gapped DNA duplexes
12:30	Lunch	

TUESDAY - MORNING		
09:00	Union Hall, Chair: Mileva Elena PL2 Weller Horst , Solvay Prize Winner Quantum dots and other nanocrystals: From basic science to applications in materials and life sciences	
09:45	Coffee Break	
	Topic 5 - White Hall Chair: Mertelj Alenka	Satellite Session - Silver Room Chair: Katz Alexander
10:15	KN5.3 di Gregorio Maria Chiara Control over morphology and complexity of metal organic frameworks	10:15 SS1 Abbott Nicholas Templated Synthesis of Complex Colloids using Liquid Crystallinity
10:45	OP5.11 Hammond Oliver Self-assembly of nanoscale structures in deep eutectic solvents	10:45 SS2 Botto Lorenzo High-resolution simulations in the design of complex fluid interfaces and graphene nanohydrodynamics
11:05	OP5.12 Solomonov Aleksei Stable DNA-polyelectrolyte multilayers: Preparation and Sensing Applications	11:15 SS3 Chaudhury Manoj Extraction of water from detergent stabilized oil-water emulsion
11:25	OP5.13 Match Lev Synthesis of nanostructured TiO ₂ microparticles for photocatalysis	11:45 SS4 Cramer Steven Recent advances in understanding the molecular basis of selectivity in multimodal protein separation systems
11:45	OP5.14 Rouster Paul Active biohybrid coatings based on enzyme-loaded halloysite nanotubes	
12:05	OP5.15 Doblas Jiménez David Active nanocomposite with liquid inclusions of responsive colloids	
12:30	Lunch	

TUESDAY - EARLY AFTERNOON		
	Topic 1 – Union Hall Chair: Pekář Miloslav	Topic 7 – Glass Hall Chair: Matějček Pavel
14:00	KN1.5 Krejca Matthias M. Gas permeation through Pickering membranes	KN7.2 Schillén Karin Mixed complex formation in thermoresponsive block copolymer-bile salt systems
14:30	OP1.21 Allolio Christoph The effect of ions on lipid membrane elasticity - from vesicle fusion to cell penetrating peptides	OP7.6 Severoni Emilia Assembly in mixtures of bile salt derivatives
14:50	OP1.22 Rinaldin Melissa Geometric pinning and antimixing of scaffolded lipid membranes	OP7.7 Procházka Karel Solubilization of slovophobic polymer chains in interpolyelectrolyte complex cores of non-stoichiometric co-assembled nanoparticles
15:10	OP1.23 Kamal Mohammad Arif Targeting the cell pole: Membrane composition or curvature?	OP7.8 Matthews Lauren Molecular Mechanisms for Self-Assembly in Hydrogen-Bonding Rich Non-Aqueous Solvents
15:30	OP1.24 Parra Elisa Effects of oxidative stress on physicochemical properties and disruption of polyunsaturated phospholipid membranes	OP7.9 Moreno Nicolas Aggregation of soft-patchy colloids
15:50	OP1.25 Hoffmann Ingo Membrane Dynamics in Polyelectrolyte Mediated Multilamellar Vesicles and their Influence on the Vesicle's Structure	OP7.10 Hartl Benedikt Molecular self-assembly at solid-liquid interfaces under electrochemical control
16:10	Coffee Break	

TUESDAY - EARLY AFTERNOON		
	Topic 8 – White Hall Chair: Varga Imre	Satellite Session – Silver Room Chairs: Katz Alexander, Velev Orlin D.
14:00	KN8.1 Tenhu Heikki Sweet and sour responsive gel nanoparticles	14:00 SS5 Danino Dganit High-resolution temporal and spatial organization of soft nanostructured materials by Cryo-electron microscopy and Cryo-electron tomography
14:30	OP8.1 Hellweg Thomas Smart microgel based surfaces and free standing membranes	14:30 SS6 Garti Nissim Novel nano domains as multi-purpose delivery vehicles for bioactives
14:50	OP8.2 Kanduč Matej Transport and solvation of penetrant molecules in thermoresponsive hydrogels	
15:10	OP8.3 Katyan Navneeta Colloidal charge effects on defect-gel stability in lyotropic nematic phases.	15:00 SS7 von Klitzing Regine Pickering emulsions for catalysis
15:30	OP8.4 Bitton Ronit Hierarchical Structure of Multicomponent Polysaccharide-Peptide Hydrogels	15:30 SS8 KATZ Alexander Aqueous Dispersion of Hydrophobic Pigments at High Solids Concentrations
15:50	OP8.5 Hansson Per Microgel Interaction with Amphiphilic and Peptide Drugs	
16:10	Coffee Break	

TUESDAY - LATE AFTERNOON		
	Topic 1 – Union Hall Chair: Paunov Vesselin	Topic 7 – Glass Hall Chair: Lo Nostro Pierandrea
16:40	KN1.6 Deguchi Shigeru Continuous bottom-up production of nanoemulsions under conditions simulating deep-sea hydrothermal vents	KN7.3 Karg Matthias Self-assembly of core/shell colloids at air/water interfaces
17:10	OP1.26 Schmitt Veronique Pickering emulsions stabilized by microgels: link between microgel adsorption at model interfaces and emulsion properties	OP7.11 Hill Christopher Properties of Fluorocarbon surfactants in Fire-fighting foam formulations
17:30	OP1.27 Chevalier Yves Aerated emulsions stabilized by Pickering effect	OP7.12 Rüter Axel Constant width ribbons, in the A10K model peptide system
17:50	OP1.28 Gonzalez Ortiz Danae Inverse pickering emulsion stabilize by exfoliated hexagonal boron nitride (h-BN)	OP7.13 Čejková Jitka Dancing performance of multiple organic droplets in aqueous solutions
18:10	OP1.29 Pascu Mihail-Lucian Laser assisted device for micro/nano-emulsion production	OP7.14 Wang Junwei Magic colloidal particles
18:30	OP1.30 Kolarova Simona Formulating pharmaceutically acceptable non-aqueous microemulsions	OP7.15 Gröhn Franziska Encoding Size and Shape of Electrostatically Self-Assembled Colloids
18:50	Poster Session B: Topics 1, 3, 4, 10, 12	

TUESDAY - LATE AFTERNOON		
	Topic 8 - White Hall Chair: Rodríguez-Abreu Carlos	Satellite Session - Silver Room Chairs: Abott Nicholas, Cramer Steven
16:40	KN8.2 Andreozzi Patrizia Exploring the pH sensitivity of poly(allylamine) phosphate supramolecular nanocarriers for intracellular siRNA delivery	16:40 SS9 Raghavan Srinivasa Nature-inspired elastic capsules, tubes and hairy surfaces
17:10	OP8.6 Tortora Maxime Chiral fluctuations & the origin of chirality in cholesteric phases of DNA origamis	17:10 SS10 Stebe Kathleen J. STRIPS BIJELs for Modern Engineering in Colloidal Science
17:30	OP8.7 Matsushita Alan An aqueous copper(II) luminescent sensor based on Tb(III)-containing coordinated gel composites	17:40 SS11 Velev Orlin D. Novel colloidal materials made by interfacial templating and "capillary engineering" of multiphasic liquid systems
17:50	OP8.8 Mirtič Janja Polyelectrolyte-surfactant complexes and their use in drug delivery: Study of cetylpyridinium-alginate complex nanoparticles	18:10 SS12 Jaensson Nick Designer emulsions using transient double emulsions
18:10	OP8.9 Martínez Marta Novel approach to study the intracellular fate of siRNApolyamine complexes by Fluorescence Cross Correlation Spectroscopy (FCCS)	18:40 SS13 Zemb Thomas Using water-poor microemulsions and pre-ouzo droplets using as selective carriers for solutes
18:30	OP8.10 Lehmann Maren In-situ measurements of light-induced phase transitions of AuNP- microgel hybrids by an extended DLS setup	
18:50	Poster Session B: Topics 1, 3, 4, 10, 12	

Poster Session B

PP1.1	Slavchov Radomir	Adsorption-desorption kinetics of surfactants at the water surface: dependence of the barrier rate constant on surface density and temperature
PP1.2	Ali Abdullah	Measuring tactile friction of Pickering formulations on excised skin
PP1.3	García Rey Natalia	Quantifying Surface Potentials at Liquid-Gas Interfaces from Vibrational Sum-Frequency Spectroscopy
PP1.4	Antonello Alice	Antifoam Agents in Cell Culture Media: Mechanism of Operation and Efficiency Enhancement
PP1.5	Olechowska Karolina	The effect of Minerval on model B16 melanoma cell membranes
PP1.6	Zawala Jan	Control of initial adsorption coverage over detaching bubble surface - implications for kinetics of dynamic adsorption layer formation
PP1.7	Tsibranska Sonya	Role of the interfacial elasticity for the bulk properties of emulsions, stabilized with saponins
PP1.8	Gazolu-Rusanova Dilek	Role of lysolipids on the surface properties of enzymatically modified egg yolk
PP1.9	Gazolu-Rusanova Dilek	Emulsification by rotor-stator homogenizer: Comparison of experimental and predicted drop sizes
PP1.10	Tsay Ruey-Yug	The phase transition behavior of the adsorbed layer of poly(ethylene oxide)-poly(propylene oxide)-poly(ethylene oxide) triblock copolymers at air-water interface
PP1.11	Mach Marzena	The influence of structure of bioactive particles on molecular organization of model lipid rafts
PP1.12	Bivas Isak Mair	Vesicles with tubular protrusions: experimental study via thermally induced shape fluctuations and Monte Carlo computer modelling
PP1.13	Kowalska Magdalena	The influence of length of PEGylated chains on properties of cationic liposomes
PP1.14	Marchal Frederic	Interfacial phenomena in silicone emulsions
PP1.15	Bohinc Klemen	Interactions between charge macroions induced by nanoparticles
PP1.16	Yokoyama Yusuke	Effect of cholesterol concentration on membrane tension and fluidity of free-standing black lipid membranes
PP1.17	Sakai Hiroshi	Isomer effect of phenylenediamine on Gibbs monolayer of sodium dodecyl sulfate
PP1.18	Hiraki Shinya	Line Tension for Ternary DSPC/DOPC/Chol and bSM/DOPC/Chol Bilayers

PP1.19	Orsi Davide	Microrheology of turbid systems by Diffusing-Wave Spectroscopy
PP1.20	Chibowski Emil	Magnetic field influence on aqueous surfactant solutions
PP1.21	Appel Christian	Thin Film Breakup in Densely Packed PEG-b-PnBA Films and their Composite Films with Iron Oxide Nanoparticles at the Air-Water Interface
PP1.22	Uyama Makoto	Self-assembled structures of water/glycerol/EO30PS system in bulk and on a solid substrate
PP1.23	Tikanadze Irma	Study of structure of water droplets of sodium bis (2-ethylhexyl) sulfosuccinate reverse microemulsions in the presence of sodium cholate
PP1.24	Chiari Luca	Chemical oscillations in three-phase systems using the quasi-elastic laser scattering method
PP1.25	Barišić Antun	Temperature effects on the inert - aqueous electrolyte solution interface
PP1.26	Jamieson Emily	Measuring Attractive Interactions between Drops in Polymer Surfactant Systems via Microfluidics and Atomic Force Microscopy
PP1.27	Costa Carolina	Native cellulose as a powerful natural emulsifier
PP1.28	Cuccovia Iolanda Midea	Biophysical and Functional Studies of two BP100 Analogues Modified by a Hydrophobic Chain and a Cyclic Peptide
PP1.29	Mutaliyeva Botagoz	Microencapsulation of active ingredient by polyelectrolyte complex formation
PP1.30	Mutaliyeva Botagoz	Influence of the structure of organosilicon compounds on their colloidal-chemical properties
PP1.31	Helm Christiane	Electrically conductive long term stable ultrathin Gallium/Gallium(hydr)oxide layers
PP1.32	Schneider Kristina	Properties of water-in-oil microemulsions doped with thermo-responsive polymers
PP1.33	Kühnhammer Matthias	PNIPAM microgel-stabilised aqueous foams
PP1.34	Lülsdorf Stefan	Corresponding state description of CO ₂ -microemulsion systems stabilized by a new fluorinated surfactant
PP1.35	Grisel Michel	Stabilization of oil-in-water emulsions containing hydrophobically modified xanthan: role of the chain conformation
PP1.36	Bochenek Steffen	Ultra low crosslinked microgels are ordered in bulk and disordered in two-dimensions
PP1.37	Fameau Anne-Laure	Designing responsive foams with an adjustable temperature threshold of destabilization
PP1.38	Zemb Thomas	Modelling phase transfer of electrolytes in emulsified microemulsions

PP1.39	Szabó Tamás	Unusual immersion stability of ultrathin polycation/graphene oxide layer-by-layer structures in electrolyte solutions
PP1.40	Fox Laura	Interactions between dendritic nanoparticles and lipid multilayers: Implications to fundamentals of nanotoxicity
PP1.41	Takiue Takanori	Miscibility of cationic and zwitterionic surfactants in adsorbed film and micelle studied by X-ray reflection and XAFS
PP1.42	Bryant Gary	Location of small molecules in lipid bilayers: insights into cryoprotective mechanisms
PP1.43	Seveno David	Selective Deposition of Polystyrene Nanoparticles on Glass Fibers
PP1.44	Koroleva Marina	Effect of SiO ₂ nanoparticles on droplet stabilization in emulsions: a simulation study
PP1.45	Kang Ho-Cheol	Syntheses and Surface-Active Properties of N-(Azobenzene-4-Oxy-2-Hydroxypropyl)-N-(Alkyloxy-2-Hydroxypropyl)Aminopropyl Sulfonate as Photoresponsive Surfactants
PP1.46	Davantès Athénais	Adsorption of hyperbranched arabinogalactan-proteins from plant exudate at solid-liquid interfaces
PP1.47	Aidarova Saule	Study of features of emulsion stabilizers at the water/liquid interface
PP1.48	Aidarova Saule	Investigation of the properties of micro- and nanocontainers with biocide
PP1.49	Lee Chang-Soo	One step formation of controllable complex emulsions
PP1.50	Sedaghat Doost Ali	Trans-cinnamaldehyde nanoemulsions stabilized using hydrophobically modified inulin with a powerful stability against stress conditions
PP1.51	Radoev Boryan	Double layer electrostatics of heterogeneous surfaces with circle phase contours
PP1.52	Shibata Osamu	Surface properties of partially perfluorinated alcohol with F-DPPC at the air-water interface
PP1.53	Kim Jeong-Hoon	Synthesis and characterization of solution processable semi-alicyclic homo- and co-polyimide membranes and their gas separation properties
PP1.54	Fedoseeva Valentina	The role of magnesium ions in the creation of nanocomposite materials based on polytetrafluoroethylene modified by natural silicates
PP1.55	Fedoseeva Valentina	Sorption interaction of a non-autonomous quasi-liquid film of ice with acetic and chloro-acetic acids
PP3.1	Akakabe Natsuki	Development of a preparation method for model lipid membrane designed for the examination of skin barrier

PP3.2	Fernandes Ricardo M. F.	Amphiphile-assisted exfoliation of carbon nanotubes in water as probed by NMR diffusometry: adsorption mode, dynamics and competitive binding
PP3.3	Sarmiento Adel Fernando	Temporal stability of droplets distributed on an interface
PP3.4	Yamaguchi Atsushi	Experimental and theoretical study on lysozyme adsorption on colloidal silica
PP3.5	Petrov Mikhail	Surface conductivity and polarizability of goethite particles in KCl aqueous electrolytes
PP3.6	Dubois Emmanuelle	Choline-based solvents for the dispersion of maghemite nanoparticles
PP3.7	Sugimoto Takuya	Turbulent hetero-aggregation rates of unequal-sized colloidal particles: Effect of size ratio
PP3.8	Sarra Angelo	High Performance Laser Transmission Spectroscopy: a powerful technique to investigate colloidal suspensions
PP3.9	Lastuvkova Marcela	Preparation of magnetorheological fluids and effect of additives on their stability
PP3.10	Smilek Jiri	Sedimentation analysis of magnetorheological fluids stabilized by amphiphilic compounds studied by analytical centrifuge
PP3.11	Bye Jordan	Inducing protein reentrant condensation with polyvalent anions
PP3.12	Bye Jordan	Supercharging proteins with polyvalent anions to offset aggregation
PP3.13	Karg Matthias	Salt-induced cluster formation of gold nanoparticles
PP3.14	Lerch Arne	Tailoring the volume phase transition behaviour of core-shell nanoparticles
PP3.15	Imanian Sadaf	Hierarchically Ordered 2D Nanoparticles Providing Empty Liquid for the Formulation of Waterborne Coatings
PP3.16	Theochari Ioanna	Development and characterization of food-grade olive oil in water nanoemulsions for the encapsulation of Vitamin D
PP3.17	Kobayashi Motoyoshi	Electrophoretic mobility of latex particles: Effect of trivalent ions
PP3.18	Anghel Dan-Florin	Microemulsions for fueling internal combustion engines
PP3.19	Emeklioğlu Öznur	Preparation of Sulfonated Waterborne Polyurethane Dispersions by Acetone Process and Their Applications on Textile Substrates
PP3.20	Tardani Franco	Does Length Matter? Suitability of halloysite nanotubes in drug delivery applications

PP3.21	Hribar Patricija	Use of promesogenic ligands for preparation of liquid crystal colloid with barium hexaferrite nanoplatelets
PP3.22	Yuno-Ohta Naoko	Concentration dependency of aqueous ethanol pre-treatment for gelation of milk whey protein -Ultrasonic and rheological analysis
PP3.23	Yang Yu-Min	The opposite cholesterol effects on the fluorescence anisotropy of DPPC liposomal bilayers
PP3.24	Hansen Jan	From protein phase behavior to second virial coefficient
PP3.25	Donadze Marine	Inorganic – Organic Nanoparticles: Interface Heterogeneity the Hidden Phenomena
PP3.26	Kignelman Gertrude	From stable TiO ₂ colloidal dispersions preparation to film formation from drying droplets
PP3.27	Kovačević Davor	Polyelectrolyte-coated cerium oxide nanoparticles
PP3.28	Aidarova Saule	Preparation of composite zein nanoparticles with natural resins
PP3.29	Mendoza Carlos I.	A semiempirical expression for the effective viscosity of multicomponent suspensions
PP3.30	Soto Marco	Effect of hydrophobic block ratio PCL/PLA of amphipathic di block copolymers type PEO-PCL/PLA into DPPC Liposome
PP3.31	Zimbitas Georgina	Concentration and pH dependence of colloidal scale solute clustering within aqueous solutions of small organic molecules
PP3.32	Terescenco Daria	Modulation of metallic oxide particle behaviour in a formulation: physico-chemical and/or sensory properties of emulsions as a tool to identify particles interactions within the matrix
PP3.33	Soto Marco	Effect of Cholesterol and Copolymers di and tri block upon water permeability and Calcein release from Liposome models
PP3.34	Schuldes Isabel	Structural characterization of triglyceride nanodispersions prepared by antisolvent precipitation
PP3.35	Vela Gonzalez Andrea Victoria	Phospholipid vesicles can be converted into micelles by contact with a non-amphiphilic fluorocarbon gas
PP3.36	Sedaghat Doost Ali	Influence of salt on the stability of nanoemulsions: Ostwald ripening
PP3.37	Hietala Sami	Thermophilic poly(N-acryloyl glycinamide) microgels
PP3.38	Voronova Marina	Dispersibility in organic solvents of freeze-dried nanocrystalline cellulose
PP3.39	Smykov Igor	Microflows role during milk gelation

PP3.40	Gavrilović Tamara	Room-temperature synthesis of ultra-small colloidal LaPO_4 : Eu^{3+} and $\text{Tm}^{3+}/\text{Yb}^{3+}$, $\text{Er}^{3+}/\text{Yb}^{3+}$, $\text{Ho}^{3+}/\text{Yb}^{3+}$ doped- REVO_4 ($\text{RE} = \text{Gd}^{3+}$, Y^{3+} , Lu^{3+}) multifunctional down-converting and up-converting nanoparticles
PP4.1	Schmidt Claudia	Effect of large amplitude oscillatory shear on a lyotropic lamellar phase
PP4.2	Nawa Erika	Abiotic vigorously motion of a vesicle under a pH gradient
PP4.3	Dimitrova Lidiya	Effects of salt and fragrance-like molecules on formulation rheology
PP4.4	Singh Naval	Solute-Driven Colloidal Particle Manipulation in Continuous Flows Past Grooved Microchannels
PP4.5	Boniello Giuseppe	Colloidal dynamics driven by confined cholesteric liquid crystals
PP4.6	Śliwa Paweł	The structure effect of nonionic surfactants on the flavonoid incorporation into micelles - molecular dynamics studies
PP4.7	Pasechnik Sergey	Decay capillary flow of liquid crystals oriented by photosensitive surfaces and electric field
PP4.8	Watanuki Yasuhito	Mechanism of the self-propelled motion of a sodium oleate tablet and boat at an oil-water interface using the quasi-elastic laser scattering technique
PP4.9	Borghesi Paola	Functionalized and non-functionalized SBR latexes: Particle Size Distribution effects on oscillatory and steady shear rheology
PP4.10	Pal Antara	Diffusion and Arrest of Ellipsoidal Particles in the Presence of an External Field
PP4.11	Biganzoli Davide	Statistical analysis of Dynamic Light Scattering data: revisiting and beyond the Schatzel formula
PP4.12	Boniello Giuseppe	Rolling and ageing in soft adhesion of microparticles
PP4.13	Shirai Katsuaki	Measurement of Kinetic Behaviour of Colloidal Particles in the Vicinity of Solid-Liquid Interfacial Boundary using Interference of Evanescent Waves
PP4.14	Orsi Davide	Dynamics in photoswitchable smart wormlike micelles
PP4.15	Watanabe Kanako	Light-driven motions of asymmetric dumbbells in H_2O_2 solution
PP4.16	Zhang Yichuan	Wetting dynamics of polydimethylsiloxane mixtures on a poly(ethylene terephthalate) fiber
PP4.17	Koos Erin	Shear dependent network orientation in capillary suspensions
PP10.1	Wierzba Patrycja	Preparation of highly hydrophobic cellulose based material by deposition of self-assembled octadecyltrichlorosilane layers

PP10.2	Signorelli Filipe	Exploiting the stability of wettability of superhydrophobic electropolymerized polyaniline surfaces under high ionic strength scaling medium
PP10.3	Wierzba Patrycja	Influence of the presence of surfactants on wetting properties of hydrophobic filtration materials modified with MTMS-based aerogels
PP10.4	Sauer Hans M.	Millisecond fluid pattern formation in the nip of a gravure printing machine
PP10.5	Seiler Patrick M.	Drop groove interaction in turbulent shear flow
PP10.6	Heinz Michael	Drops of pure liquids and mixtures on substrates with nanostructured porous coatings: Impact, imbibition and evaporation
PP10.7	Emelyanenko Alexandre	Organic lenses on water: Spreading followed by contraction. Role of water solubility
PP10.8	Alam Ehsanul	Experimental investigation on the influence of the substrate softness on drop retention
PP10.9	Anachkov Svetoslav	Particle detachment from fluid interfaces: Theory vs Experiments
PP10.10	Sheng Yu-Jane	Controlling Nanodrop Passage Through Capillary Nanovalves by Adjusting Lyophilic Crevice Structure
PP10.11	Tsao Heng-Kwong	Smart zwitterionic sulfobetaine silane surfaces with switchable wettability for aqueous/nonaqueous drops
PP12.1	Goetz Klaus	Porphyrin Adsorption by Stabilized TiO ₂ Nanoparticles
PP12.2	Dudek Marcin	Spreading of oil droplets on gas bubbles studied with microfluidics

	Union Hall			
Chair	Nylandre Tommy			
09:00	PL3 Malmsten Martin Nanoparticle delivery systems for antimicrobial peptides			
09:45	Coffee Break			
	Union Hall	Glass Hall	White Hall	Silver Room
Chair	Buchner Richard	Dubois Emmanuelle	Winnik François	Lapanje Aleš
10:15	KN7.4 Tsarkova Larisa	KN3.3 Richtering Walter	KN8.3 Zapotoczny Szczepan	KN9.1 Skirtach Andre
10:45	OP7.16 Ličen Matjaž	OP3.11 Nigro Valentina	OP8.11 Wellert Stefan	OP9.1 Xenakis Aristoteles
11:05	OP7.17 Anachkov Svetoslav	OP3.12 Paunov Vesselin	OP8.12 Varga Imre	OP9.2 Rodler Agnes
11:25	OP7.18 Simon Miriam	OP3.13 Scotti Andrea	OP8.13 Moreno Angel J.	OP9.3 Lapanje Aleš
11:45	OP7.19 Reguera Javier	OP3.14 Nespoulous Mathieu	OP8.14 Howe Andrew	OP9.4 Saghaei Tayebbeh
12:05	OP7.20 Sedlák Marián	OP3.15 Jansson Maria	OP8.15 Megušar Polona	OP9.5 Cantu Laura
12:30	Lunch			
13:30-14:30	White Hall Elsevier talk: van Daalen Rob			
14:00-15:30	Poster Session C			
15:00	Trip to Bled			
15:30	Guided Ljubljana City Tour			



Martin Malmsten, University of Copenhagen, Denmark

Nanoparticles as carriers of host defense peptides

Due to rapidly increasing resistance development against conventional antibiotics, finding novel approaches for the treatment of infections has emerged as a major health issue. Antimicrobial peptides (AMPs) have attracted interest in this context, and there is by now a considerable literature on the identification such peptides, as well as on their optimization to reach potent antimicrobial and anti-inflammatory effects at simultaneously low toxicity against human cells. In comparison, delivery systems for antimicrobial peptides have attracted considerably less interest. However, such delivery systems are likely to play a key role in the development of potent and safe AMP-based therapeutics, e.g., through reducing chemical or biological degradation of AMPs either in the formulation or after administration, by reducing adverse side-effects, by controlling AMP release rate, by promoting biofilm penetration, or through achieving co-localization with intracellular pathogens.

Here, an overview is provided of some of our recent work on delivery systems for antimicrobial peptides, including polymer nanogels [1,2], mesoporous silica [3], nanoclays/nanosheets [4], and quantum dots, with special focus on AMP-carrier interactions, as well as consequences of these for membrane interactions, as well as for antimicrobial and related biological effects of AMP-containing formulations.

[1] R. Nordström et al. J. Colloid Interface Sci. 2018, 513, 141.

[2] S. Singh et al. ACS Appl. Mater. Interfaces 2017, 9, 40094.

[3] K. Braun et al. J. Colloid Interface Sci. 2016, 475, 161.

[4] S. Malekhaat Häffner et al. Phys. Chem. Chem. Phys. 2017, 19, 23832.

List of Keynote Speakers for Wednesday

KN3.3	Richtering Walter , RWTH University Aachen, Germany How do responsive microgels respond to crowding?
KN7.4	Tsarkova Larisa , Moscow State University, Moscow, Russia Nanoreactors from electrostatically bridged like-charged surfactants and polyelectrolytes
KN8.3	Zapotoczny Szczepan , Jagiellonian University, Krakow, Poland Reinforced polymer micro(nano)capsules templated on solid and liquid cores as promising microreactors and drug carriers
KN9.1	Skirtach Andre , University of Gent, Belgium Nano- and micro- particles as drug delivery carriers and constituents of coatings

WEDNESDAY - MORNING		
09:00	Union Hall, Chair: Nylander Tommy PL3 Malmsten Martin Nanoparticle delivery systems for antimicrobial peptides	
09:45	Coffee Break	
	Topic 7 – Union Hall Chair: Buchner Richard	Topic 3 – Class Hall Chair: Dubois Emmanuelle
10:15	KN7.4 Tsarkova Larisa Nanoreactors from electrostatically bridged like-charged surfactants and polyelectrolytes	KN3.3 Richtering Walter How do responsive microgels respond to crowding?
10:45	OP7.16 Ličen Matjaž Superparamagnetic colloidal crystals as candidates for neutron beam polarizers	OP3.11 Nigro Valentina Fragility of soft IPN microgels
11:05	OP7.17 Anachkov Svetoslav Pathways for viscosity reduction in fatty-acid-containing micellar solutions	OP3.12 Paunov Vesselin Stimulus Responsive Capillary Suspensions
11:25	OP7.18 Simon Miriam Polyelectrolyte Microemulsion Complexes (PEMECs) with Structures Tunable by pH	OP3.13 Scotti Andrea Effect of softness and architecture on the compression and interpenetration of microgels in overcrowded environment
11:45	OP7.19 Reguera Javier Assembly of Janus Fe ₃ O ₄ -Au magnetic-plasmonic nanoparticles with sensing and molecular imaging capabilities	OP3.14 Nespoulous Mathieu Microstructure formation in freezing nanosuspensions
12:05	OP7.20 Sedláč Marián Mesoscale solubility in liquid solutions and mixtures	OP3.15 Jansson Maria The effect of the relative permittivity and the temperature response on the structural properties and swelling of Na- and Ca-montmorillonite
12:30	Lunch	
13:30	Elsevier talk – White Hall van Daalen Rob: How to successfully publish in a scientific journal – Advice for manuscript preparation, the peer review process and ethics in publishing	
14:00	Poster Session C: Topics 2, 8, 9	
15:00 / 15:30	Trip to Bled / Guided Ljubljana City Tour	

WEDNESDAY - MORNING		
09:00	Union Hall, Chair: Nylander Tommy PL3 Malmsten Martin Nanoparticle delivery systems for antimicrobial peptides	
09:45	Coffee Break	
	Topic 8 - White Hall Chair: Winnik François	Topic 9 - Silver Room Chair: Lapanje Aleš
10:15	KN8.3 Zapotoczny Szczepan Reinforced polymer micro(nano)capsules templated on solid and liquid cores as promising microreactors and drug carriers	KN9.1 Skirtach Andre Nano- and micro- particles as drug delivery carriers and constituents of coatings
10:45	OP8.11 Wellert Stefan Segmental dynamics of planar polymer brushes	OP9.1 Xenakis Aristoteles Microemulsion based organogels as lipase carriers: A structural and efficacy study
11:05	OP8.12 Varga Imre Preparation of doubly crosslinked microgel photonic crystals from novel core/shell microgel particles	OP9.2 Rodler Agnes Structural and transport properties of a hydrogel mimicking the subcutaneous tissue
11:25	OP8.13 Moreno Angel J. Computational Investigation of Microgels: Effect of the Microstructure on the Deswelling Behavior	OP9.3 Lapanje Aleš Need for colloid biology: Are bacterial cells really just particles?
11:45	OP8.14 Howe Andrew The unstable flow of concentrated solutions of very high MW polymers at low Reynolds number - and some important consequences.	OP9.4 Saghaei Tayebeh Biomimetic Folding Particle Chains
12:05	OP8.15 Megušar Polona Effects of different starches and hydrocolloids on model dough properties and quality of gluten-free bread	OP9.5 Cantu Laura Directional insertion of cone-shaped channel protein in model membranes by neutron reflectometry and electrophysiology.
12:30	Lunch	
13:30	Elsevier talk - White Hall van Daalen Rob: How to successfully publish in a scientific journal - Advice for manuscript preparation, the peer review process and ethics in publishing	
14:00	Poster Session C: Topics 2, 8, 9	
15:00 / 15:30	Trip to Bled / Guided Ljubljana City Tour	

Poster Session C

PP2.1	Oliveira Isabel	Protein loading by stimuli-sensitive tubules based on lysine surfactants
PP2.2	Szczepanowicz Krzysztof	Incorporation of Gadolinium based compounds into polyelectrolyte nanocarriers for theranostic application
PP2.3	Markowska-Radomska Agnieszka	Hierarchically structured emulsions for brain tumors therapy
PP2.4	Avdeev Mikhail	Neutron reflectometry in applied research of interfaces with liquid and soft media at the IBR-2 reactor
PP2.5	Spasojević Ljiljana	Encapsulation of carvacrol in zein/resin composite nanoparticles
PP2.6	Kwaśniewska Dobrawa	Routes of synthesis single and gemini sulfobetaine type surfactants
PP2.7	Wieczorek Daria	Sulfobetaine type surfactants as antimicrobial agents
PP2.8	Kindermann Marek	Intracellular delivery of siRNA by polymer-grafted fluorescent nanodiamonds
PP2.9	Lapanje Aleš	Polyelectrolyte induced controlled aggregation of cells: metabolic coupling
PP2.10	Bazylinska Urszula	Varied-core polyelectrolyte nanocarriers for sustained delivery of porphyrin photosensitizers to human ovarian cancer cells
PP2.11	Damgaard Liv Sofia Elinor	Modelling human stratum corneum with commercially available lipids
PP2.12	Plotniece Aiva	Evaluation of novel cationic pyridinium-based amphiphile C12-Man-Q as an efficient in vitro gene delivery agent
PP2.13	Szabó Tamás	Controllable release of ketoprofen from chitosan nanoparticles deposited on graphene oxide platelets
PP2.14	Lin Shi-Yow	Adsorption kinetics of heptadecafluoro-1-nonanol: phase transition
PP2.15	Lin Shi-Yow	Dynamic surface tension of ionic surfactant solutions during a rapid surface expansion
PP2.16	Tasca Elisamaria	A PEO-PPO-PEO block copolymer/sodium cholate system to host doxorubicin
PP2.17	Raabova Helena	Fluorescent nanodiamonds coated in stimuli-responsive polymeric shells – platform for optical sensors
PP2.18	Wasilewska Monika	Mechanisms of fibrinogen/antibody interactions at silica substrates

PP2.19	Pujol Montserrat	Phase behaviour and structure properties of supported lipid monolayers and bilayers in interaction with GBV-C derived peptides of interest on HIV-1 inhibition
PP2.20	Tóth Tünde	Drug encapsulation into polymeric nanoparticles
PP2.21	Migii Juki	Preparation of silver-lustrous organic crystals having a benzanilide skeleton
PP2.22	Albuquerque Lindomar Jose Calumby	Surface-Active Stimuli-Responsive Polymersomes towards the Intracellular Delivery of Drugs, Genes and Proteins
PP2.23	Piludu Marco	Strategies to monitor proteins adsorbed in mesoporous silica nanoparticles
PP2.24	Tsay Ruey-Yug	Immobilizing polymyxin B on self-assembled monolayers and probing their interaction with lipopolysaccharide
PP2.25	Xenakis Aristotelis	Novel water-in-oil (W/O) microemulsion as gallic acid carrier for pharmaceutical applications. A structural and efficacy study
PP2.26	Pascu Mihail-Lucian	Laser foaming of medicine solutions
PP2.27	Jankowska Kamila	The use of ATR-FTIR to study the mechanism of initial bacterial attachment and biofilm development on surfaces coated with different polymers.
PP2.28	Matias Duarte Hugo Manuel	Understanding the mode of action of different chemistry on the micro-structure of bacteria
PP2.29	Benková Zuzana	Molecular dynamics simulations of interactions between carbon nanotube coated with poly(ethylene oxide) and oligopeptides
PP2.30	Alves Luis	Tuning chitosan film properties by changing acidic dissolution conditions
PP2.31	Pascu Mihail-Lucian	Laser Induced Colloidal Structures in Drugs Solutions
PP2.32	Jurić Slaven	Encapsulation of Mediterranean plants extracts obtained by means of non-conventional high voltage electrical discharges method
PP2.33	García Isabel	Enhanced penetration in 3D extracellular tumoral matrices of Au nanocarriers through passive and stimuli-responsive delivery
PP2.34	Naidjonoka Polina	Interfacial properties of compounds derived from hemicellulose
PP2.35	Gubala Dajana	Surface chemistry, morphology, friction and nanostructure of fibres and fabrics.

PP2.36	Goršak Tanja	Colloidal stabilisation of permanently-magnetic nanoplatelets in aqueous suspensions for bio-medical applications
PP2.37	Todorov Roumen	Black foam film method in studies of pulmonary surfactant disorders
PP2.38	Lapanje Ales	Electrostatically attached microbes affect processes of biofilm formation
PP2.39	Worsch Peter Mario	Active Pharmaceutical Ingredient (API) thin films studies by Grazing-Incidence X-ray Scattering and Diffraction
PP2.40	Fernández-Peña Laura	Unravelling the interfacial behaviour of polyelectrolyte-surfactant mixtures with technological interest
PP2.41	Fraga-García Paula	Bio-nano interactions: using iron oxides for downstream processing applications
PP2.42	Noll Dennis M.	In Situ Study of the Growth and Ripening of Poorly Water-Soluble Organic Nanoparticles Prepared by Antisolvent Precipitation
PP2.43	Ravera Francesca	Interfacial Properties of Ophthalmic Surgery Silicone Oil in Blood Serum Solutions in Relation to Emulsification
PP2.44	Ravera Francesca	Surface properties and foamability of Saponine and Chitosan solutions
PP2.45	Fong Khay	The re-assembly of phosphatidylethanolamine and phosphatidylcholine liposomes upon hydrolysis with phospholipase C
PP2.46	Šegota Suzana	Enhanced release of the antioxidant flavonols induced by magnetic field of very low frequency
PP2.47	Meroni Daniela	Helicene grafting on halloysite nanotubes for drug delivery: layer structure, surface selectivity and pH triggered drug release
PP2.48	Tsarkova Larisa	Volatile surfactants: characterization and areas of application
PP2.49	Luengo Gustavo	Applications of Surface Chemistry in the Cosmetic Industry. Optimizing the use of surfactants and water with foams
PP2.50	Sedaghat Doost Ali	Fabrication and functionality of novel almond gum-shellac nanoparticles as an oral delivery system
PP2.51	Kłosowska-Chomiczewska Ilona	Prediction of biosurfactants solubilization capacity based on experimental and literature data
PP2.52	Jung Chong Hun	Oxide and cobalt removal of foam decontaminating agent
PP2.53	Shibata Osamu	Langmuir monolayer properties of Gemini type perfluorinated surfactants with DPPC at the air-water interface

PP2.54	Shibata Osamu	Monolayers of a tetrazine-containing gemini amphiphile: Interaction with biomembrane lipids
PP2.55	Paunov Vesselin	Enhanced antimicrobial effect of berberine and chlorhexidine in nanogel carriers with cationic surface functionality
PP2.56	Wojciechowski Kamil	Positive charge brought by CTAB to acrylic and styrene copolymers enables formation of antimicrobial films
PP2.57	Wojciechowski Kamil	Surface activity of saponin-rich plant extracts
PP2.58	ElBialy Inas	Formulation Dependent Interfacial Activity of Monoclonal Antibodies and its Impact on the Physical Stability
PP2.59	Šutka Anna	Visible light controlled absorption-desorption on goethite nanowires for drug delivery applications
PP8.1	Laffleur Flavia	Development of a novel drug delivery system comprising biopharmaceuticals for dermal and nail delivery
PP8.2	Czemierska Magdalena	Acquisition of bioflocculant from <i>Rhodococcus opacus</i> FCL1069 strain
PP8.3	Lorusso Emanuela	Polyester fabrics modified with zwitterionic polymer brushes to reduce biofilm formation
PP8.4	Esteso Miguel A.	Diffusion of sodium hyaluronate in aqueous solutions: the influence of the electrolyte presence in the medium
PP8.5	Schmidt Henrik	Interplay of magnetic-dipole and PDMS-matrix forces between magnetic nickel particles and well-ordered paramagnetic chains
PP8.6	Kawai Mika	Electric and dielectric properties for biopolyimide films
PP8.7	Mitsumata Tetsu	Magnetorheological effect for carrageenan magnetic hydrogels
PP8.8	Ali Wael	Hydrogel-functionalized polyester fabrics
PP8.9	Matsushita Alan	Multicolour tunable emission of Eu,Tb(PSA)Phen composite
PP8.10	Ruscigno Silvia	Zipper brushes from interfacial coacervation: Structure and interactions
PP8.11	Cavalli Tobia	Synthesis of Anisometric Polyhedral Homopolymer Particles
PP8.12	Reščič Jurij	Electrostatic Effects in Mixtures of Polyethylene Glycol and Poly(Sodium Methacrylate)
PP8.13	Fussell Sian	Investigating the behaviour of different pINPAM architectures
PP8.14	Jarábková Sabína	Determination of antimicrobial activity of polyelectrolyte-surfactant hydrogels
PP8.15	Lerch Arne	Phase behavior and solution structure of new UCST- and LCST-type polymers

PP8.16	Brasiunas Benediktas	Application of gold nanostructures for the improvement of electrochromic and optical properties of conducting polymers composite
PP8.17	Tan Kok Hui	Bio-inspired Selenium Modified Microgels
PP8.18	Popov Anton	Toward Electrochromic Detection of Gases: Conducting Polymer Layer on Transparent Substrate
PP8.19	Krouská Jitka	Surfactant - polyelectrolyte interactions studied by microcalorimetry and light scattering methods
PP8.20	Hansen Daniel	Chemical 3D mapping of polymer composite fillers
PP8.21	Ko Chia-Hsin	The structural, thermal and dynamic behavior of the thermoresponsive polymer poly(N-isopropylmethacrylamide)
PP8.22	Kang Jia-Jhen	Morphology of Thermoresponsive Molecular Brushes With Copolymer Side Arms in Dilute Aqueous Solutions
PP8.23	Son Young-A	Design, preparation and coloration approaches with new anthraquinone dyes in supercritical carbon dioxide
PP8.24	Adamek Maksimiljan	Effects of nitroaromatic pollutant integration on the structure of plant lignin
PP8.25	Klučáková Martina	Transport of organic dyes in biopolymeric hydrogels
PP8.26	Mateos-Cuadrado Helena	Influence of polymer coatings on biological soil removal for hard surfaces
PP8.27	Ksiazkiewicz Agnieszka	Temperature-programmed synthesis of responsive micron-sized poly(N-Vinylcaprolactam) microgels
PP8.28	Alves Luís	New approach to native cellulose aqueous solutions characterization
PP8.29	Pekař Miloslav	IR spectroscopy characterization of water in polyelectrolyte-surfactant hydrogels
PP8.30	Witt Marcus	Effect of Magnetic Nanoparticle Distribution in PNIPAM Microgels on their Magnetic Response
PP8.31	Valentini Alessandra	Streaming potential and UV VIS analyses of fabrics modified by surface modification polymers
PP8.32	Winnik Françoise	Poly(sulfobetaine)/polycation complexation in water and on interfaces
PP8.33	Čakara Duško	In-situ optoelectronic properties of a conducting polymer film studied by means of electrochemical spectroscopic ellipsometry
PP8.34	Altikriti Yassir	Self-assembly properties and kinetics of Amphiphilic drug molecules in oppositely charged microgels
PP8.35	Le Coeur Clémence	Temperature induced conformational change and hydration of poly(methacrylic acid)

PP8.36	Szyk-Warszynska Lilianna	Interactions of poly(L-arginine) and poly (L-lysine) with casein in LbL films
PP8.37	Wlodek Magdalena	The influence of surface properties of polyelectrolyte multilayers applied as support for amphiphilic membranes
PP8.38	Moreno Ostertag Laila	Determination of free energy and bias depending on tether length in single-molecule unbinding experiments
PP8.39	Paduano Luigi	Polyvinyl alcohol micro/nano-gels prepared through salting out: rationalizing the aggregation process and tuning the microstructural properties
PP8.40	Braun Larissa	Localisation of Polyelectrolyte and Surfactant at surfaces of aqueous mixture: A neutron reflectivity study
PP8.41	Wrede Oliver	Super-Resolution Optical Microscopy resolves Network Morphology of Smart Colloidal Microgels
PP8.42	Cors Marian	Internal structure of acrylamide based microgels: SANS determination of density profiles
PP8.43	Brändel Timo	Core-shell microgels as smart carriers for silver nanoparticles
PP8.44	Merindol Remi	Macroscopic DNA hydrogels that sense mechanical strain.
PP8.45	Bernard Olivier	Thermodynamic properties of polyelectrolytes and associating electrolytes in solution
PP8.46	Zoumpantioti Maria	Lipase encapsulation in cellulose derivative: structure and function
PP8.47	Sotres Javier	Proteolytic degradation of gelatin-tannic acid multilayers
PP8.48	Chakraborty Souvik	Glass Transition and Interfacial Dynamics of Poly(vinyl alcohol)-Silica Nanocomposite Systems - A Molecular Dynamics Simulation Study
PP8.49	Gonzalez Martinez Juan Francisco	Nanomechanical characterization of waterborne coatings and the effect of relative humidity
PP9.1	Marques Eduardo	Catanionic vesicles based on amino acid-derived surfactants: developing biocompatible and versatile molecular nanocarriers
PP9.2	Kochergin Boris	The interaction of bilirubin- and coumarin-6-loaded micellar coordination clusters with alpha-, beta- and gamma-cyclodextrins
PP9.3	Božič Darja	Tracking Populations of Extracellular Vesicles by Dynamic Light Scattering: Changes in Size Distributions of Submicron Particles in Human Blood Plasma after Heart Surgeries Engaging Extracorporeal Blood Circulation

PP9.4	Božič Darja	Characterization of Extracellular Vesicles in Human Blood Plasma: Combination of Static and Dynamic Light Scattering
PP9.5	Rybkin Iaroslav	How to build a defined synthetic shell on bacteria in a tailor-made manner?
PP9.6	Rybkin Iaroslav	Assembling of magnetic fluorescence engine for bacterial theranostics
PP9.7	Petrichenko Oksana	Influence of the synthetic lipid-like pyridinium amphiphile structure on the formation of magnetic liposomes
PP9.8	Nattich-Rak Malgorzata	Human serum albumin adsorption at gold substrates
PP9.9	Nattich-Rak Malgorzata	Determining mechanism of albumin and fibrinogen adsorption on mica
PP9.10	Nattich-Rak Malgorzata	Human serum albumin (HSA) monolayers on positively charged polymer microparticles
PP9.11	D'Errico Gerardino	Not just a fluidizing effect: omega-3 phospholipids induce formation of non-lamellar phases in biomembranes
PP9.12	Jochum Clemens	Conformation characteristics of DNA-based dendrimers in electrolyte solutions
PP9.13	Pomorska Agata	Dynamic Hydration Function of Human Serum Albumin adsorbed at Silica Sensor
PP9.14	Jephthah Stéphanie	A computational and experimental investigation of the structural properties of the N-terminus MgtA peptide keif
PP9.15	Paunov Vesselin	High throughput fabrication of cell spheroids by templating water-in-water Pickering emulsions

	Union Hall			
Chair	Glatter Otto			
09:00	PL4 Warr Gregory			
09:45	Coffee Break			
	Union Hall	Glass Hall	White Hall	Silver Room
Chair	Lopez-Cabarcos Enrique	Valente Artur J. M.	Kogej Ksenija	Kramarenko Elena
10:15	KN2.4 Gonella Grazia	KN3.4 Mertelj Alenka	KN8.4 Le Coeur Clémence	KN10.1 Butt Hans-Jürgen
10:45	OP2.16 Zidar Mitja	OP3.16 Esquena Jordi	OP8.16 Sato Takaaki	OP10.1 Gerlach Felix
11:05	OP2.17 Iturri Jagoba	OP3.17 Koos Erin	OP8.17 Gradzielski Michael	OP10.2 Baumli Philipp
11:25	OP2.18 Michel Sarah	OP3.18 Unruh Tobias	OP8.18 Dias Rita	OP10.3 Vuckovac Maja
11:45	OP2.19 Luengo Gustavo	OP3.19 Sakai Toshio	OP8.19 Loppinet Benoit	OP10.4 Wong William
12:05	OP2.20 Fernández-Peña Laura	OP3.20 Segovia-Gutiérrez J. Pablo	OP8.20 Webber Grant	OP10.5 Emelyanenko Alexandre
12:30	Lunch			
Chair	Vollmer Doris	Esquena Jordi	Adamczyk Zbigniew	Bohinc Klemen
14:00	KN2.5 Paduano Luigi	KN1.7 Maas Michael	KN9.2 Merindol Remi	KN11.1 Horinek Dominik
14:30	OP2.21 Shi Da	OP1.31 Tardani Franco	OP9.6 Hansen Jan	OP11.1 Diat Olivier
14:50	OP2.22 Kawakami Kohsaku	OP1.32 Warszyński Piotr	OP9.7 Rybkin Iaroslav	OP11.2 Lo Nostro Pierandrea
15:10	OP2.23 Románszki Loránd	OP1.33 Rouscher Armand	OP9.8 Szilágyi István	OP11.3 Bye Jordan
15:30	OP2.24 Nilsson Emelie	OP1.34 Malaspina David C.	OP9.9 Crawford Russell	OP11.4 Rebiscoul Diane
15:50	Coffee Break			
	White Hall			
Chair	Björn Lindman			
16:20	Memorial session			
18:30	ECIS General Assembly			
19:30-22:00	Gala Dinner			
22:00-	Band & DJ Programme			



Gregory Warr, University of Sydney, Australia

The littlest amphiphiles: nanostructured solvents and self-assembly

Ionic liquids (ILs) have become objects of great interest over the past decade or so, but it is over 30 years since Evans' pioneering work that showed that surfactant self-assembly into micelles and lyotropic phases could occur in the IL ethylammonium nitrate [1,2]. Since then, the number and variety of ILs has increased exponentially, and they have insinuated themselves into almost every corner of chemistry. Recently, a number of studies have revealed new insights into the structure of ILs and their mixtures [3], including the novel class known as deep eutectic solvents (DESs).

This talk will review the use of neutron beam, X-ray and other complementary techniques that have revealed the inherent amphiphilic character of the bulk structure of ILs [4], how their surfactant character is affected by cation and anion structure [5], and how such inherently nanostructured solvents differ from familiar molecular solvents. I will then examine how ILs behave as solvents for simple polar and non-polar solutes [6], in mixtures with molecular species including as DESs, and for genuine amphiphiles including small molecule surfactants [7], cosurfactants [8], and block copolymers [9]. Finally I will examine the similarities and differences between solvophobic self-assembly into micelles, microemulsions, and lyotropic liquid crystals in water and ILs.

[1] D. F. Evans et al. J. Colloid Interface Sci. 1982, 88, 89.

[2] D. F. Evans et al. J. Phys. Chem. 1983, 87, 533.

[3] R. Hayes, G. G. Warr, R. Atkin, Chem. Rev. 2015, 115, 6357.

[4] T. Murphy et al. Curr. Opin. Colloid Interface Sci. 2015, 20, 282.

[5] R. Hayes et al. J. Phys. Chem. C 2014, 118, 13998.

[6] R. Hayes et al. Angew. Chem., Int. Ed. 2012, 51, 7468.

[7] A. Dolan et al. Chemical Science 2015, 6, 6189.

[8] H. J. Jiang et al. J. Phys. Chem. B 2014, 118, 9983.

[9] R. Atkin et al. J. Phys. Chem. B 2009, 113, 12201.

List of Keynote Speakers for Thursday

KN1.7	Maas Michael , University of Bremen, Germany Self-Assembly of mixed nanoparticle/surfactant thin films in colloidosome shells	KN8.4	Le Coeur Clémence , LLB, CEA Saclay / ICMPE, Gif-sur-Yvette, France Unexpected rheological behavior of concentrated poly(methacrylic acid) aqueous solutions
KN2.4	Gonella Grazia , Max Planck Institute for Polymer Research, Mainz, Germany How polymers affect protein adsorption	KN9.2	Merindol Remi , Centre de Recherche Paul Pascal, Pessac, France Combining DNA phase transition and hybridization to form all-DNA colloids and superstructures
KN2.5	Paduano Luigi , University of Naples "Federico II", Italy Functionalized Iron-Oxide Nanoparticles: from Design to in vivo Applications	KN10.1	Butt Hans-Jürgen , Max-Planck-Institute for polymer Research, Mainz, Germany How Drops Start Sliding Over Solid Surfaces
KN3.4	Mertelj Alenka , Jožef Stefan Institute, Ljubljana, Slovenia Evolution of nematic phase in a colloid of magnetic nanoplatelets	KN11.1	Horinek Dominik , University of Regensburg, Germany Solvent- and Ion-Specific Effects on the Structure of Micelles and Micelle-like Aggregates

THURSDAY - MORNING		
09:00	Union Hall, Chair: Glatter Otto PL4 Warr Gregory The Littlest Amphiphiles: Nanostructured Solvents and Self-Assembly	
09:45	Coffee Break	
	Topic 2 - Union Hall Chair: Lopez-Cabarcos Enrique	Topic 3 - Glass Hall Chair: Valente Artur J. M.
10:15	KN2.4 Gonella Grazia How polymers affect protein adsorption	KN3.4 Mertelj Alenka Evolution of nematic phase in a colloid of magnetic nanoplatelets
10:45	OP2.16 Zidar Mitja Characterization of protein aggregation in biopharmaceuticals	OP3.16 Esquena Jordi Formation and characterization of multiple Water-in-Water-in-Water (W/W/W) emulsions
11:05	OP2.17 Iturri Jagoba Gone fishing: Using Atomic Force Microscopy for a height-dependent capture of bacterial fimbriae under specific and non-specific conditions	OP3.17 Koos Erin Dynamic properties of capillary suspensions: A molecular dynamics study using ESPResSo
11:25	OP2.18 Michel Sarah A chemical synthesis paradigm for in utero repair of Spina Bifida	OP3.18 Unruh Tobias Interfaces of colloidal particles in liquid dispersions observed by combined SAXS and SANS studies
11:45	OP2.19 Luengo Gustavo Feeling young - Tactile ability and skin-tribological properties of young and elderly	OP3.19 Sakai Toshio Colloidal Stabilization of Surfactant-free Water-in-Oil Emulsions with the Addition of Electrolyte in Water
12:05	OP2.20 Fernández-Peña Laura Novel aqueous formulations based on the encapsulation of ceramide-like molecules with cosmetic interest	OP3.20 Segovia-Gutiérrez Juan Pablo Microliter viscometry using a bright-field microscope: n-DDM
12:30	Lunch	

THURSDAY - MORNING		
09:00	Union Hall, Chair: Glatter Otto PL4 Warr Gregory The Littlest Amphiphiles: Nanostructured Solvents and Self-Assembly	
09:45	Coffee Break	
	Topic 8 - White Hall Chair: Kogej Ksenija	Topic 10 - Silver Room Chair: Kramarenko Elena
10:15	KN8.4 Le Coeur Clémence Unexpected rheological behavior of concentrated poly(methacrylic acid) aqueous solutions	KN10.1 Butt Hans-Jürgen How Drops Start Sliding Over Solid Surfaces
10:45	OP8.16 Sato Takaaki The Critical Fluctuation of Poly(N-isopropylacrylamide): Hydration Behavior and Additional Microscopic Order Parameter	OP10.1 Gerlach Felix Wetting of milliscale step geometries with varying kinematic conditions
11:05	OP8.17 Gradzielski Michael Polyelectrolyte Surfactant Complexes (PESCs) of Hyaluronan and Cationic Surfactant - Structural Progression and Rheological Behaviour	OP10.2 Baumli Philipp Emulsion-based Lubricant Replenishment Strategies for Lubricant-Impregnated Slippery Surfaces under Flow
11:25	OP8.18 Dias Rita Coarse-grained Monte Carlo simulations of complexation between weak polyelectrolytes and oppositely charged nanoparticles	OP10.3 Vuckovac Maja Scanning droplet adhesion microscopy for mapping wetting variations on water-repellent surfaces
11:45	OP8.19 Loppinet Benoit Structure, persistence and hydrodynamics of high generation denpols	OP10.4 Wong William Epidermis-Inspired Robust Superhydrophobicity
12:05	OP8.20 Webber Grant Electrostatic Formation of Polymer Particle Stabilised Liquid Marbles and Metastable Droplets - Effect of Latex Shell Conductivity	OP10.5 Emelyanenko Alexandre Combination of Functional Nanoengineering and Nanosecond Laser Texturing for Design of Superhydrophobic Aluminum Alloy with Exceptional Mechanical and Chemical Properties
12:30	Lunch	

THURSDAY - EARLY AFTERNOON

	Topic 2 – Union Hall Chair: Vollmer Doris	Topic 1 – Glass Hall Chair: Esquena Jordi
14:00	KN2.5 Paduano Luigi Functionalized Iron-Oxide Nanoparticles: from Design to in vivo Applications	KN1.7 Maas Michael Self-Assembly of mixed nanoparticle/surfactant thin films in colloidosome shells
14:30	OP2.21 Shi Da Preparation, Stabilization and Characterization of Microbubbles Decorated by Dendronized Iron Oxide Nanoparticles for Medical Applications	OP1.31 Tardani Franco Designing Graphene Oxide LC Films Structures through Drying Instabilities
14:50	OP2.22 Kawakami Kohsaku Formation of colloidal phase after dissolution of supersaturable dosage forms and its impact on oral absorption	OP1.32 Warszyński Piotr Surface activity of esterquat and amidoquat surfactants
15:10	OP2.23 Románszki Loránd Casein probe-based fast plasmin determination in the picomolar range by an ultra-high frequency acoustic wave biosensor	OP1.33 Rouscher Armand First Macro-Mesoporous Silica Monoliths: Conditions for Obtaining Self-Standing Materials
15:30	OP2.24 Nilsson Emelie Novel insights into crucial properties determining the performance of polysorbate 80 as a pharmaceutical excipient	OP1.34 Malaspina David C. Nano-scale roughness and hydrophobicity: the case of cellulose nano-crystals
15:50	Coffee Break	

THURSDAY – EARLY AFTERNOON		
	Topic 9 – White Hall Chair: Adamczyk Zbigniew	Topic 11 – Silver Room Chair: Bohinc Klemen
14:00	KN9.2 Merindol Remi Combining DNA phase transition and hybridization to form all-DNA colloids and superstructures.	KN11.1 Horinek Dominik Solvent- and Ion-Specific Effects on the Structure of Micelles and Micelle-like Aggregates
14:30	OP9.6 Hansen Jan Non-Equilibrium States of Sticky Colloidal Particles: Phase Separation and Dynamical Arrest	OP11.1 Diat Olivier Polyoxometalates as a case study of super-chaotropes
14:50	OP9.7 Rybkin Iaroslav Is a single layer of polyelectrolytes covering bacterial cells poisonous as Tunic of Nessus or protective as a warm coat?	OP11.2 Lo Nostro Pierandrea Specific Ion Effects in Non-aqueous Solvents: the Curious Case of Glycerol Carbonate
15:10	OP9.8 Szilágyi István Antioxidant inorganic-organic hybrids of high functional and colloid stability	OP11.3 Bye Jordan Inducing protein reentrant condensation with polyvalent anions
15:30	OP9.9 Crawford Russell Bactericidal behaviour of self-assembled fatty acid crystals on highly ordered pyrolytic graphite	OP11.4 Rebiscoul Diane The interfacial layer in nanoconfinement: an experimental and modelling approach
15:50	Coffee Break	

THURSDAY - LATE AFTERNOON

	Memorial Session - White Hall Chair: Lindman Björn	
16:20	Meditation (from Jules Massenet's opera Thaïs, violin solo Maja Horvat)	
16:25	MS1	Koper Ger J. M.: In memory of Hans Lyklema - A life devoted to Science and Society
16:50	MS2A	Mileva Elena: In memory of Dotchi Exerowa and Dimo Platikanov
	MS2B	Todorov Roumen: Surface forces through microinterferometric thin-liquid-film apparatus
17:15	MS3A	Nylander Tommy: In memory of Kåre Larsson - A lifelong curiosity for science and innovation
	MS3B	Nylander Tommy: Biomolecular interactions that controls the curvature of the lipid-aqueous interface
17:40	MS4A	Zemb Thomas: In memory of Helmuth Möhwald - Unconventional ideas leading to efficient applications of surface layers
	MS4B	Špadina Mario: A model for the prediction of rare-earth elements extraction/desextraction by a mixed charged and uncharged extractant microemulsion
18:05	MS5	Kralchevsky Peter A.: In memory of Ivan B. Ivanov - Remarkable figure in colloid and interface science
18:30	ECIS General Assembly - White Hall	

THURSDAY - EVENING

19:30-22:00	Gala Dinner
22:00-	Band & DJ Programme

	Union Hall			
Chair	Howe Andrew			
09:00	PL5 Muševič Igor			
09:45	Coffee Break			
	Union Hall	Glass Hall	White Hall	Silver Room
Chair	Spindler Lea	Koper Ger	Koos Erin	Ravera Francesca
10:15	KN7.5 Aramaki Kenji	KN12.1 Fery Andreas	KN4.2 Lattuada Marco	KN10.2 Kralchevsky Peter
10:45	OP7.21 Pons Ramon	OP12.1 Riedl Jesse Cornelius	OP4.6 Vilfan Mojca	OP10.6 Kramarenko Elena
11:05	OP7.22 Briscoe H. Wuge	OP12.2 Avdeev Mikhail	OP4.7 Bernard Olivier	OP10.7 Seveno David
11:25	OP7.23 Giustini Mauro	OP5.16 Šoóš Miroslav	OP4.8 Silva Bruno	OP10.8 Drevenšek-Olenik Irena
11:45	OP7.24 Shchekin Alexander	OP5.17 Deák András	OP4.9 Takenaka Yoshiko	OP10.9 Miquelard-Garnier Guillaume
	Union Hall			
Chair	Warszyński Piotr			
12:15	PL6 Overbeek Medal Winner: Lekkekerker Henk			
Chair	Mileva Elena			
13:00	Prizes and Closing			
14:00	Post conference trip to Postojna			



Igor Muševič, IJS / University of Ljubljana, Slovenia
Liquid crystal colloids

Nematic colloids are dispersions of microparticles in nematic liquid crystals [1]. These are fascinating materials, showing several novel classes of colloidal forces, which do not exist in ordinary colloids with isotropic solvents. The interaction of liquid crystal molecules with the surfaces of particles induces topological defects in a form of points and closed loops, which are the generators of forces between colloidal inclusions. Because of the inevitable presence of topological defects, nematic colloids are also called topological colloids, where the topology is responsible for topological-defect-mediated colloidal interactions. This provides colloidal assembly in 2D and 3D nematic colloidal crystals [2] and colloidal interactions mediated by colloidal entanglement [3], where knotted and linked topological defect loops form knots and links of arbitrary complexity [4]. In all cases, the colloidal binding energy is of the order of several 1000 kBT. This is several orders of magnitude higher than for water-based colloids and could provide new strategies for topological soft materials and applications in photonics. An overview of this rapidly developing field is presented, together with some interesting applications to soft matter photonics and recent studies of topological charge production and control [5].

[1] I. Muševič, *Liquid Crystal Colloids* 2017, Springer, Cham, Switzerland.

[2] I. Muševič et al. *Science*, 2016, 313, 954.

[3] M. Ravnik et al. *Phys. Rev. Lett.* 2007, 99, 247801.

[4] U. Tkalec et al. *Science* 2011, 333, 62.

[5] M. Nikkhou et al. *Nature Physics* 2015, 11, 183.



Henk N. W. Lekkerkerker, Utrecht University, The Netherlands; Overbeek medal winner
Self-organised structures in suspensions of mineral colloidal plates: From colloidal liquid crystals to self-assembled nanocomposites

One of the most remarkable phenomena exhibited by concentrated suspensions of colloidal particles is the spontaneous transition from fluid-like structures to those exhibiting long-range spatial and/or orientational order (colloidal crystals and colloidal liquid crystals). The fact that such ordering can occur in suspensions in which interparticle forces are purely repulsive provides a dramatic realization of the predictions made by Lars Onsager in the 1940's and later substantiated by computer simulations. From these studies it is clear that the ordering is driven by entropy.

Liquid crystalline phases in suspensions of rod-like mineral colloidal particles have been known for a long time. As early as 1925 Zocher reported on the observation of a nematic phase in suspensions of V_2O_5 . A decade later Langmuir reported on sols of platelike clay particles that after standing for several 100 hours separated into an isotropic and nematic phase. However the experiment of Langmuir could not be repeated, instead a birefringent gel was observed. The first unambiguous experimental observation of a nematic phase and columnar phase in a suspension of plate-like colloids, predicted by Frenkel and co-workers by computer simulations [1], dates from 2000 [2]. In the last decade interesting liquid crystal phase transitions have been observed in suspensions of both natural (clay) plate-like particles as well as synthetic nanosheets. After a brief review of some of these results I will focus on the competition between liquid crystal formation and gelation in suspensions of plate like colloids. Results of liquid crystal phases of colloidal platelets as templates for the generation of ordered silicastructures and polymer nanocomposites will be presented.

[1] F.M. van der Kooij et al. Nature 2000, 406, 868.

[2] J.A.C. Veerman and D. Frenkel, Phys. Rev. A, 1992, 45, 5632.

List of Keynote Speakers for Friday

KN4.2	Lattuada Marco , University of Fribourg, Switzerland Magnetorheology of magnetic colloidal gels
KN7.5	Aramaki Kenji , Yokohama National University, Japan Hydrogel Formed by Organogelator - Surfactant-Mediated Gelation
KN10.2	Kralchevsky Peter , Sofia University, Bulgaria Dynamic depletion force in wetting films due to surfactant micelles and its effect on the motion of bubbles in capillaries
KN12.1	Fery Andreas , Leibniz Institute of Polymer Research Dresden, Germany Colloidal surface assemblies for light harvesting and beyond

FRIDAY - MORNING		
9:00	Union Hall, Chair: Howe Andrew PL5 Muševič Igor Liquid Crystal Colloids	
9:45	Coffee Break	
	Topic 7 – Union Hall Chair: Spindler Lea	Topic 12, Topic 5 – Glass Hall Chair: Koper Ger
10:15	KN7.5 Aramaki Kenji Hydrogel Formed by Organogelator - Surfactant-Mediated Gelation	KN12.1 Fery Andreas Colloidal surface assemblies for light harvesting and beyond
10:45	OP7.21 Pons Ramon The Cyclobutane Scaffold in the Construction of Bolaamphiphiles: Effect of Diastereoisomerism and Regiochemistry on Their Surfactant Behavior and Aggregation	OP12.1 Riedl Jesse Cornelius Dispersions of nanoparticles in ionic liquids for thermoelectric applications: evidencing the key parameters
11:05	OP7.22 Briscoe H. Wuge Morphogenesis of polycrystalline dendritic patterns from evaporation of a reactive nanofluid sessile drop	OP12.2 Avdeev Mikhail Nanoscale structure of planar electrochemical interfaces for lithium power sources by neutron reflectometry
11:25	OP7.23 Giustini Mauro Doxorubicin: a low molecular weight water gelator	OP5.16 Šoóš Miroslav Nitrogen-Rich Hierarchically Porous Polyaniline-Based Adsorbents for CO ₂ Capture
11:45	OP7.24 Shchekin Alexander A general comparison of kinetics with step-wise and fusion-fission aggregation in mono- and polydisperse micellar solutions	OP5.17 Deák András Surface chemical patch formation and self-assembly investigated at the single-particle level
12:15	Union Hall, Chair: Warszyński Piotr PL6 Lekkekerker Henk , Overbeek Medal Winner Self-organised structures in suspensions of mineral colloidal plates: From colloidal liquid crystals to self-assembled nanocomposites	
13:00	Prizes and Closing – Union Hall Chair: Mileva Elena	

FRIDAY - MORNING		
09:00	Union Hall, Chair: Howe Andrew PL5 Muševič Igor Liquid Crystal Colloids	
09:45	Coffee Break	
	Topic 4 – White Hall Chair: Koos Erin	Topic 10 – Silver Room Chair: Ravera Francesca
10:15	KN4.2 Lattuada Marco Magnetorheology of magnetic colloidal gels	KN10.2 Kralchevsky Peter Dynamic depletion force in wetting films due to surfactant micelles and its effect on the motion of bubbles in capillaries
10:45	OP4.6 Vilfan Mojca Magnetically driven omnidirectional artificial microswimmers	OP10.6 Kramarenko Elena Wettability of magneto-polymer coatings: effect of the composition and external magnetic fields
11:05	OP4.7 Bernard Olivier Onsager's reciprocal relations in electrolyte solution. Sedimentation and electroacoustics.	OP10.7 Seveno David Wettability of carbon nanotube fibers
11:25	OP4.8 Silva Bruno SAXS on a chip: from alignment phenomena at interfaces to dynamics of phase transitions studied with microfluidic devices	OP10.8 Drevenšek-Olenik Irena Magnetically tunable surface roughness and wettability of soft magnetoactive elastomers
11:45	OP4.9 Takenaka Yoshiko Displacement of Colloids in Liquid Crystals Induced by UV Light	OP10.9 Miquelard-Garnier Guillaume Dewetting dynamics of a thin polymer film embedded in an immiscible matrix
12:15	Union Hall, Chair: Warszyński Piotr PL6 Lekkekerker Henk , Overbeek Medal Winner Self-organised structures in suspensions of mineral colloidal plates: From colloidal liquid crystals to self-assembled nanocomposites	
13:00	Prizes and closing – Union Hall Chair: Mileva Elena	

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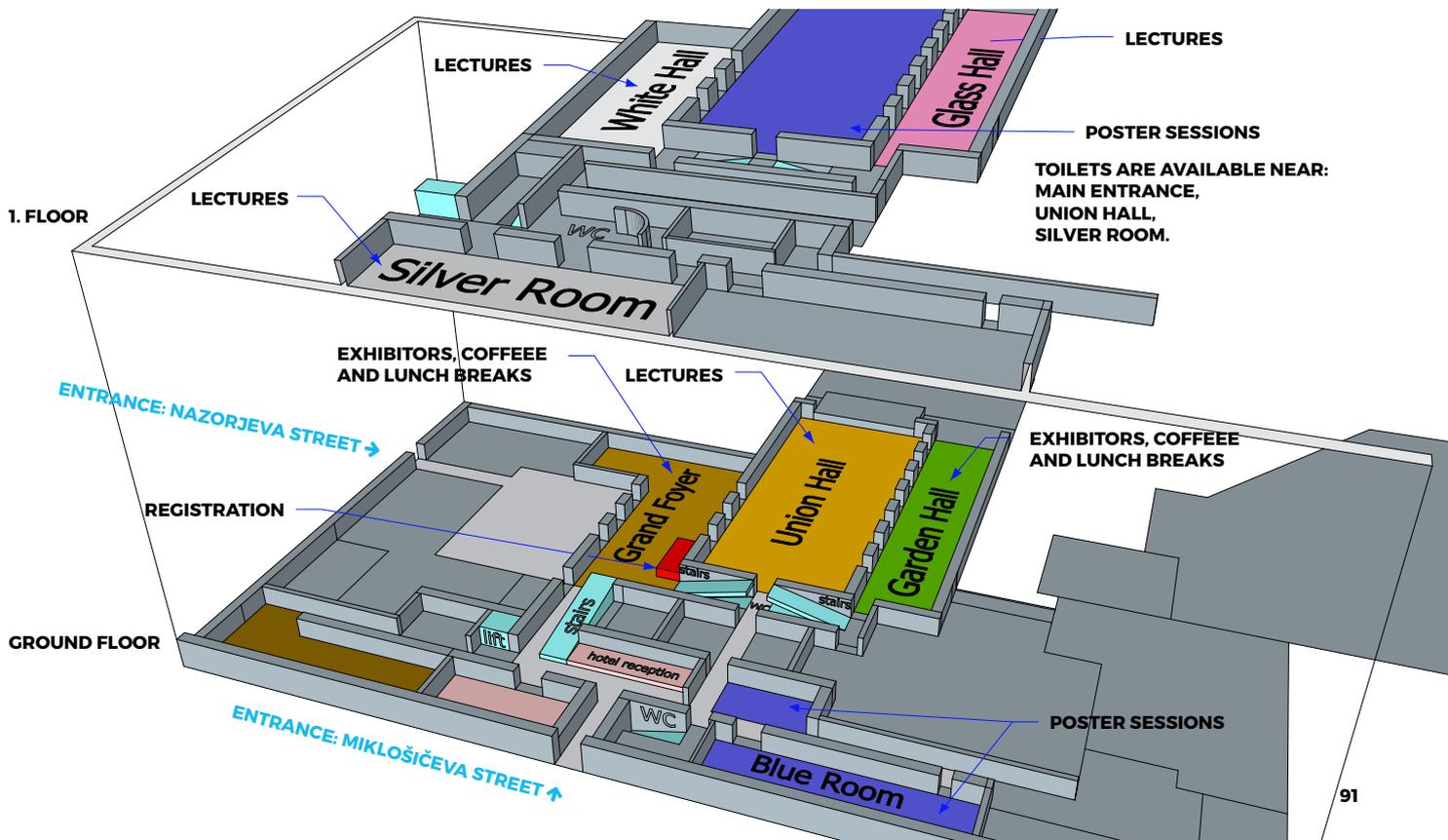
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Venue Floorplan



Monday				Tuesday				Wednesday				Thursday				Friday			
Welcome 8:45																			
PL1 (UH)				PL2: Solvay Prize (UH)				PL3 (UH)				PL4 (UH)				PL5 (UH)			
Coffee break 9:45-10:15				Coffee break 9:45-10:15				Coffee break 9:45-10:15				Coffee break 9:45-10:15				Coffee break 9:45-10:15			
KN1.1	KN2.1	KN3.1	KN4.1	KN1.4	KN7.1	KN5.3	Satellite Session	KN7.4	KN3.3	KN8.3	KN9.1	KN2.4	KN3.4	KN8.4	KN10.1	KN7.5	KN12.1	KN4.2	KN10.2
OP1.1	OP2.1	OP3.1	OP4.1	OP1.16	OP7.1	OP5.11		OP7.16	OP3.11	OP8.11	OP9.1	OP2.16	OP3.16	OP8.16	OP10.1	OP7.21	OP12.1	OP4.6	OP10.6
OP1.2	OP2.2	OP3.2	OP4.2	OP1.17	OP7.2	OP5.12		OP7.17	OP3.12	OP8.12	OP9.2	OP2.17	OP3.17	OP8.17	OP10.2	OP7.22	OP12.2	OP4.7	OP10.7
OP1.3	OP2.3	OP3.3	OP4.3	OP1.18	OP7.3	OP5.13		OP7.18	OP3.13	OP8.13	OP9.3	OP2.18	OP3.18	OP8.18	OP10.3	OP7.23	OP5.16	OP4.8	OP10.8
OP1.4	OP2.4	OP3.4	OP4.4	OP1.19	OP7.4	OP5.14		OP7.19	OP3.14	OP8.14	OP9.4	OP2.19	OP3.19	OP8.19	OP10.4	OP7.24	OP5.17	OP4.9	OP10.9
OP1.5	OP2.5	OP3.5	OP4.5	OP1.20	OP7.5	OP5.15		OP7.20	OP3.15	OP8.15	OP9.5	OP2.20	OP3.20	OP8.20	OP10.5				
Lunch 12:30-14:00																PL6: Overbeek Medal (UH)			
																Prizes & Closing 13:00			
KN1.2	KN2.2	KN3.2	KN5.1	KN1.5	KN7.2	KN8.1	Satellite Session	PP2, PP8, PP9 14:00-15:30				KN2.5	KN1.7	KN9.2	KN11.1				
OP1.6	OP2.6	OP3.6	OP5.1	OP1.21	OP7.6	OP8.1						OP2.21	OP1.31	OP9.6	OP11.1				
OP1.7	OP2.7	OP3.7	OP5.2	OP1.22	OP7.7	OP8.2						OP2.22	OP1.32	OP9.7	OP11.2				
OP1.8	OP2.8	OP3.8	OP5.3	OP1.23	OP7.8	OP8.3						OP2.23	OP1.33	OP9.8	OP11.3				
OP1.9	OP2.9	OP3.9	OP5.4	OP1.24	OP7.9	OP8.4						OP2.24	OP1.34	OP9.9	OP11.4				
OP1.10	OP2.10	OP3.10	OP5.5	OP1.25	OP7.10	OP8.5													
Coffee break 16:10-16:40				Coffee break 16:10-16:40								Coffee break 15:50-16:20							
KN1.3	KN2.3	KN5.2	KN6.1	KN1.6	KN7.3	KN8.2	Satellite Session	Free Time Guided tours 15:30-				Memorial session (WR) 16:20-18:30							
OP1.11	OP2.11	OP5.6	OP6.1	OP1.26	OP7.11	OP8.6													
OP1.12	OP2.12	OP5.7	OP6.2	OP1.27	OP7.12	OP8.7													
OP1.13	OP2.13	OP5.8	OP6.3	OP1.28	OP7.13	OP8.8													
OP1.14	OP2.14	OP5.9	OP6.4	OP1.29	OP7.14	OP8.9													
OP1.15	OP2.15	OP5.10	OP6.5	OP1.30	OP7.15	OP8.10													
PP5, PP6, PP7, PP11 18:50-20:20				PP1, PP3, PP4, PP10, PP12 18:50-20:20				Ljubljana Castle Reception 19:00-				ECIS General Assembly (WR) 18:30							
												Gala Dinner 19:30-22:00							
												Band & DJ Programme 22:00-							

