Sitges, Barcelona, Spain

	Sunday 9 th June 2024
15:30 - 17:00	Registration Location: Hall Tramuntana
17:00 - 17:15	Conference Welcome Location: Tramuntana 2+3
17:15 - 18:15	Plenary Session 1 Location: Tramuntana 2+3 Chair: Julian Eastoe
	17:15 - 18:15 [PL01] Assembly of charged colloids <u>Monica Olvera de la Cruz</u> Northwestern University Department of Materials Science and Engineering, Evanston, IL, USA. Northwestern University Department of Chemistry, Evanston, IL, USA
18:15 - 19:30	Welcome Reception Location: Tramuntana 1
	Monday 10 th June 2024
08:00 - 09:00	Registration Location: Hall Tramuntana
09:00 - 10:00	Winner of the 2024 JCIS Darsh Wasan Award Location: Tramuntana 2+3 Chair: Martin Malmsten
	09:00 - 10:00 [AW01] Designing synthetic mimics for cosmic dust particles: from colloid chemistry to space science via hypervelocity physics Steven Armes The University of Sheffield, Sheffield, UK
10:00 - 10:30	Keynote Session 1 Location: Tramuntana 2+3 Chair: Martin Malmsten
	10:00 - 10:30 [KEY01] Dynamics of Multi-component Fluids near Interfaces Sepideh Razavi The University of Oklahoma, Norman, OK, USA
10:30 - 11:00	Refreshment Break Location: Tramuntana 1
11:00 - 11:30	Keynote Session 2 Location: Tramuntana 2+3 Chair: Catherine Whitby
	11:00 - 11:30 [KEY02] Concentrated Electrolytes at Uncharged Interfaces: Adsorption, Potentials, Surface tension and the Role of the Surfactant Monolayer Radomir Slavchov ¹ , Boyan Peychev ¹ , Ivan Minkov ^{2,3} ¹ Queen Mary University of London School of Engineering and Materials Science, London, UK. ² Sofia University St Kliment Ohridski, Sofia, Bulgaria. ³ Bulgarian Academy of Sciences, Sofia, Bulgaria
11:30 - 12:00	Keynote Session 3 Location: Tramuntana 2+3 Chair: Catherine Whitby
	11:30 - 12:00 [KEY03] Surfactant-based lyotropic liquid crystal gels - The interplay between anisotropic order & gel formation Cosima Stubenrauch, Katja Steck, Sonja Dieterich, Frank Gießelmann University of Stuttgart, Stuttgart, Germany
12:00 - 12:30	Keynote Session 4

Location: Tramuntana 2+3 Chair: Catherine Whitby

12:00 - 12:30 [KEY04]

Design of cerium oxide-armored polymer particles by thermal and visible light-induced polymerizations in dispersed media: From synthesis to film properties

Elodie Bourgeat-Lami¹, Magalie Schoumacker¹, Jacques Lalevée², Pierre-Yves Dugas¹, Damien Montarnal¹, Muriel Lansalot¹, Emmanuel Lacôte¹

*University Claude Bernard Lyon 1, Villeurbanne, France. *University of Haute-Alsace, Mulhouse, Mulhouse, France

12:30 - 13:30

Lunch

Location: Noray Restaurant

13:30 - 15:10

Parallel Session 1

Location: Tramuntana 2+3 Chair: Karen Edler

13:30 - 13:50 [O1.1]

New gels for the cleaning of works of art <u>Piero Baglioni</u>¹, Rosangela Mastrangelo², Damiano Bandelli², Giovanna Poggi², David

Chelazzi²

¹CSGI and University of Florence, Department of Chemistry 'Ugo Schiff', Firenze, Italy. ²University of Florence Department of Chemistry 'Ugo Schiff', Firenze, Italy

13:50 - 14:10 [01.2]

Arrested liquid/liquid interfaces based on confined polyion/mixed surfactant assemblies

Robert Meszaros¹, Monika Bak¹, Gergo Gyulai¹, Judith Mihaly² ¹Eötvös Loránd University, Budapest, Hungary. ²HUN-REN Hungarian Research Network, Seocho-gu, Hungary

14:10 - 14:30 [O1.3]

When elasticity influences drop spreading

Surjyasish Mitra^{1,2}, A-Reum Kim^{3,2}, Boxin Zhao^{3,2}, <u>Sushanta Mitra</u>^{1,2}

¹University of Waterloo Department of Mechanical and Mechatronics Engineering

Mechanical and Mechatronics Engineering, Waterloo, ON, Canada. ²University of Waterloo Institute for Nanotechnology, Waterloo, ON, Canada. ³University of Waterloo, Waterloo, ON, Canada

14:30 - 14:50 [O1.4]

Modeling colloidal matrices made by lipid oleogels and proteins

Farnaz Maleky

The Ohio State University, Columbus, OH, USA

14:50 - 15:10 [01.5]

Designing tuneable surface nanotopographies with biocidal properties Elena Ivanova¹, Denver Linklater¹, Vladimir

Baulin², Saulius Joudkazis³
¹RMIT University, Australia. ²Universitat
Rovira i Virgili, Spain. ³Swinburne University
of technology, Australia

Parallel Session 2

Location: Garbi 1 Chair: Yujun Feng

13:30 - 13:50 [O2.1]

Phase behavior and water-in-water emulsions of choline-based ionic liquids

Jonathan Miras¹, Susana Vílchez¹, Francesca Barrera², Laura Lorenzo², Carlos Martínez¹, Sokphirom Gunther¹, Carlos Rodríguez-Abreu³, Maria Teresa Garcia¹, <u>Jordi Esquena¹</u> ¹Institute of Advanced Chemistry of Catalonia (IQAC-CSIC), Jordi Girona, Barcelona, Spain. ²Institute of Advanced Chemistry of Catalonia (IQAC-CSIC), Jordi Girona, Barcelona, Barcelona, Spain. ³Institute of Advanced Chemistry of Catalonia, Barcelona, Spain

13:50 - 14:10 [02.2]

How surfactants deactivate coronaviruses? A Physical Chemistry perspective

Helena Mateos^{1,2}, Antonia Mallardi^{3,2}, <u>Gerardo</u> <u>Palazzo</u>^{1,2}

¹University of Bari, Bari, Italy. ²Center for Colloid and Surface Science, Firenze, Italy. ³IPCF-NMR, Pisa, Italy

14:10 - 14:30 [O2.3]

Electrified interfaces and the simultaneous production of electricity and green hydrogen Andre Galembeck¹, Thiago Burgo², Leandra dos

Santos³, Fernando Galembeck^{4,3}

¹Federal University of Pernambuco Department of Fundamental Chemistry, RECIFE, Brazil. ²Sao Paulo State University Institute of Biosciences Letters and Exact Sciences, SAO JOSE DO RIO PRETO, Brazil. ³Galembetech Consultores de Tecnologia Ltda, Brazil. ⁴State University of Campinas Institute of Chemistry, CAMPINAS, Brazil

14:30 - 14:50 [O2.4]

Effect of droplet evaporation on the Gibb's criterion for low and high surface tension liquid Damena Agonafer

University of Maryland College Park, Princess Anne, MD, USA

14:50 - 15:10 [O2.5]

Antimicrobial properties of nitrogen-containing carbonaceous materials using photocatalytic action under visible light irradiation

<u>Masayuki Kawaguchi</u>, Akiko Saito, Shigeaki Morita Osaka Electro-Communication University, Neyagawa, Japan

Parallel Session 3

Location: Garbi 2 Chair: Meital Reches

13:30 - 13:50 [O3.1]

Enhanced biphasic reactions in amphiphilic silica mesopores

Guolin Zhao¹, Yao Li¹, Jie Gao², Yunjiao Gu³, Bing Hong³, Shuangliang Zhao⁴, <u>Marc Pera-Titus⁵</u>
¹State Key Laboratory of Chemical Engineering, East China University of Science and Technology, Shanghai, China. ¹Eco-Efficient Products and Processes Laboratory (E2P2L), UMI 3464 CNRS — Solvay, Xin Zhuang Ind. Shanghai, China. ³Eco-Efficient Products and Processes Laboratory (E2P2L), UMI 3464 CNRS — Solvay, Xin Zhuang Ind. Sone, Shanghai, China. ⁴School of Chemistry and Chemical Engineering, Guangxi University, Nanning, China. ⁵Cardiff Catalysis Institute, School of Chemistry, Cardiff University, Cardiff, UK

13:50 - 14:10 [O3.2]

Janus particles as a flexible platform to obtain complex colloids

Marco Lattuada

University of Fribourg, Fribourg, Switzerland

14:10 - 14:30 [O3.3]

Cellulose microfibrils: Properties and application in edible complex fluids and soft materials

Krassimir Velikov

Unilever Innovation Centre Wageningen, The Netherlands

14:30 - 14:50 [O3.4]

Novel insights into antibody-gold nanoparticle interactions: Implications for immunological assays

<u>Helena Mateos</u>^{1,2}, Antonia Mallardi³, Esther Serrano-Pertierra⁴, Maria del Carmen Blanco-López⁵, Margherita Izzi¹, Nicola Cioffi¹, Gerardo Palazzo¹

¹University of Bari, Bari, Italy. ²Center for Colloid and Surface Science, Firenze, Italy. ³Institute for Chemical and Physical Processes National Research Council Bari Unit, Pisa, Italy. ⁴Instituto Universitario de Biotecnología de Asturias, Spain. ⁵University of Oviedo, Oviedo, Spain

14:50 - 15:10 [O3.5]

Lipid carriers for phenolic polymers: Selfassembled functional nano-vectors with controlled colloidal properties and enhanced antioxidant activity

Gerardino D'Errico

University of Naples Federico II Department of Chemistry Sciences, Napoli, Italy. Center for Colloid and Surface Science, Firenze, Italy

15:10 - 15:30

Young Investigator Session 1

Location: Tramuntana 2+3 Chair: Karen Edler

15:10 - 15:30 [YI01]

How a liquid-crystalline hexagonal columnar phase behaves under shear? loanna Chazapi¹, Laurent Michot², Frederic

Pignon³, Erwan-Nicolas Paineau¹

Young Investigator Session 2

Location: Garbi 1 Chair: Yujun Feng

15:10 - 15:30 [YI02]

Ascorbic acid mediated hydrolysis of galactomannans

<u>Michael-Alex Kamlow</u>^{1,2}, Julian Marks², Ian Fisk¹, Gleb Yakubov¹

Young Investigator Session 3

Location: Garbi 2 Chair: Meital Reches

15:10 - 15:30 [YI03]

Evaporation induced self-assembly of liquid crystal nanotubes in levitation: Exploring phase transitions and material shaping

	¹ Université Paris-Saclay, CNRS, Laboratoire de Physique des Solides, France. ² Sorbonne University, Paris, France. ³ University Grenoble, CNRS, LRP, France	¹ University of Nottingham, Nottingham, UK. ² Hain Celestial Group, UK	Claire Hotton ¹ , Thomas Bizien ² , Brigitte Pansu ¹ , Cyrille Hamon ¹ , Erwan Paineau ¹ ¹ Laboratory of the Physics of Solids, Orsay, France. ² SOLEIL, Gif sur Yvette, France	
15:30 - 18:00	Refreshment Break and Poster Session Location: Tramuntana 1			
18:00 - 19:00	Plenary Session 2 Location: Tramuntana 2+3 Chair: Debora Berti 18:00 - 19:00 [PL02] Unveiling viscoelastic instabilities and colloidal rod alignment in microfluidic platforms Amy Shen Okinawa Institute of Science and Technology Graduate University, Onna, Japan			
19:00 - 20:00	Optional walking tour of Sitges (Limited availability – please visit the registration desk to reserve your place)			
		Tuesday 11 th June 2024		
07:30 - 08:30	applications Location: Garbi 1 Dr. Andrea Vaccaro - Chief Technical Officer	s: Modern dynamic and static light scatterin		
	In this workshop we will first review dynamic choosing and applying analytical approaches,	and static light scattering fundamentals. We will focus of and evaluating results.	on practical considerations for designing experiments,	
		luding depolarized dynamic light scattering for measuring Cross Correlation DLS for dilution-free measurements.		
	Participants will have the opportunity to enga scattering from beginners to experts are enco	ge in Q&A with the speaker in this interactive workshop uraged to join this unique event.	o. Scientists with any level of experience with light	
	Breakfast sponsored by LS Instruments AG and	d provided for all participants with advance workshop r	egistration	
	Space is limited, please register here: https://	lsinstruments.ch/en/info/contact-form?source=2024-0	6-13th-international-colloids-conference	
08:30 - 09:00	Registration Location: Hall Tramuntana			
09:00 - 10:00	Plenary Session 3 Location: Tramuntana 2+3 Chair: Teresa Bandosz 09:00 - 10:00 [PL03] From Gutenberg Bible to 4D printing Shlomo Magdassi Hebrew University of Jerusalem, Jerusalem, Isl	rael		
10:00 - 10:30	Keynote Session 5 Location: Tramuntana 2+3 Chair: Teresa Bandosz			
	10:00 - 10:30 [KEY05] Phenomenon of chemical magnetism Boris Kichatov FSBIS Lebedev Physical Institute of the Russian	n Academy of Sciences, Moskva, Russia		
10:30 - 11:00	Refreshment Break Location: Tramuntana 1			
11:00 - 11:30	Keynote Session 6 Location: Tramuntana 2+3 Chair: Raz Jelinek			
	11:00 - 11:30 [KEY06] Peptide-Based Functional Coatings and Asser Meital Reches The Hebrew University, Israel	mblies		
11:30 - 12:00	Keynote Session 7 Location: Tramuntana 2+3 Chair: Raz Jelinek			

11:30 - 12:00 [KEY07]

Membrane Design by Atomic Layer Deposition

Mikhael Bechelany

Institut Européen des membranes, Univ Montpellier, CNRS, France

12:00 - 12:30

Keynote Session 8

Location: Tramuntana 2+3

Chair: Raz Jelinek

12:00 - 12:30 [KEY08]

Swelling kinetics of pH-responsive polymers

Jing-Jong Shyue^{1,2}, Hui-Yun Huang¹, Shu-Min Yang¹

¹Research Center for Applied Sciences, Academia Sinica, Taipei, Taiwan. ²Department of Materials and Science Engineering, National Taiwan University,

Taipei, Taiwan

12:30 - 13:45

Lunch

Location: Noray Restaurant

13:45 - 15:05

Parallel Session 4

Location: Tramuntana 2+3 Chair: Sepideh Razavi

13:45 - 14:05 [04.1]

Conductive hydrophobic graphene oxide surfaces via laser-scribed modification Shirin Alexander

Swansea University, Swansea, UK

14:05 - 14:25 [04.2]

Enhanced contact flexibility from nanoparticles in capillary suspensions Lingyue Liu, Jens Allard, Erin Koos KU Leuven, Belgium

14:25 - 14:45 [04.3]

Contact electrification during water intrusion-extrusion into-from nanopores for self-powered pressure/temperature nanosensors and thermomechanical energy harvesting

<u>Luis Bartolomé</u>¹, Josh Littlefair^{2,3}, Eder Amayuelas¹, Andrea Le Donne², Simone Meloni², Yaroslav Grosu^{1,4} ¹Alternative Energy Investigation Centre, Alava, Spain. 2University of Ferrara, Ferrara, Italy. 3The University of Edinburgh, Edinburgh, UK. 4University of Silesia, Katowice, Poland

14:45 - 15:05 [O4.4]

Active pharmaceutical ingredient deep eutectic solvents as promising systems for drug delivery

Boris M. Popović, Tatjana Jurić, Ružica Ždero Pavlović, Denis Uka, Teodora Kukrić, Milica Petković University of Novi Sad Faculty of

Agriculture, Novi Sad, Serbia

Parallel Session 5

Location: Garbi 1 Chair: Cosima Stubenrauch

13:45 - 14:05 [05.1]

Exploring the versatility and potential of amphiphilic gradient poly(2-oxazoline)s as a sustainable alternative platform to PEGs in emulsion stabilization

Valentin Bardoula^{1,2}, Richard Hoogenboom³, Véronique Nardello-Rataj^{2,1}

¹HT-SmartFormu Platform, France. ²University of Lille, Lille, France. ³Ghent University, Gent, Belgium

14:05 - 14:25 [05.2]

Quantitative sensing of chiral molecules by surface-enhanced Raman spectroscopy

Daedu Lee, Yoonsoo Pang Gwangju Institute of Science and Technology, Gwangju, Republic of Korea

14:25 - 14:45 [05.3]

Targeted micro-phase separation: A new concept to improve printing resolution and cell viability in 3D bioprinting

Claude Oelschlaeger, Bruna Regina Maciel, Ute Schepers, Norbert Willenbacher Karlsruhe Institute of Technology, Germany

14:45 - 15:05 [05.4]

Multicellular lipid compartments for scalable micro-compartmentalization with environmentally responsive release Richard Archer, Tsuyoshi Inaba, Shin-Ichiro M Nomura

Tohoku University, Japan

15:05 - 15:25

15:25 - 15:45

Young Investigator Session 4

Location: Tramuntana 2+3 Chair: Sepideh Razavi

15:05 - 15:25 [YI04]

Improved estimation of capillary condensation pressure for associating fluids confined in nanocapillaries by considering a curvature-dependent association energy parameter in the PC-**SAFT model**

Aliakbar Roosta, Nima Rezaei LUT University, LAPPEENRANTA, Finland

15:25 - 15:45 [YI05]

Self-assembled supra-particles by evaporation of aqueous aerosol droplet containing a binary mixture of diblock copolymer nanoparticles

Young Investigator Session 5

Location: Garbi 1 Chair: Cosima Stubenrauch

15:05 - 15:25 [YI06]

Multicore silica microcapsules containing α tocopherol for potential cosmetic applications Mohammed Al-Sharabi¹, Benjamin Lobel², Daniele Baiocco³, Olivier Cayre², Zhibing Zhang³, Alexander Routh1

¹University of Cambridge, UK. ²University of Leeds, UK. ³University of Birmingham, UK

15:25 - 15:45 [YI07]

Bacteriophages as emulsion stabilizers with antibacterial activity for improved food safety Samuel Watts, Sierin Lim Nanyang Technological University, Singapore

Parallel Session 6

Location: Garbi 2 Chair: Jing-Jong Shyue

13:45 - 14:05 [06.1]

Capillary driven self-assembly of composite ellipsoidal composite microgels at the air/water interface

Nabanita Hazra¹, Andrey Rudov², Jiarul Midja³, Andrey Babenyshev¹, Walter Richtering¹, Gerhard Gompper⁴, Thorsten Auth³, Igor Potemkin², <u>Jérôme</u>

¹RWTH Aachen University, Institute of Physical Chemistry, Aachen, Aachen, Germany. 2DWI-Leibniz-Institute for Interactive Materials, Aachen, Germany. 3Theoretical Physics of Living Matter, Institute of Biological Information Processing and Institute for Advanced Simulation,

Forschungszentrum Jülich, Germany. ⁴Theoretical Physics of Living Matter, Institute of Biological Information Processing and Institute for Advanced Simulation, Forschungszentrum Jülich, Jülich, Germany

14:05 - 14:25 [06.2]

Correlative effects on nanoplastics aggregation in model extracellular biofilm substances investigated with fluorescence correlation spectroscopy

Tobias Guckeisen, Rozalia Orghici, <u>Silke Rathgeber</u> Universität Koblenz, Germany

14:25 - 14:45 [06.3]

Insights into giant vesicle assembly from thin lipid films

Anand Subramaniam

University of California Merced, Merced, CA, USA

14:45 - 15:05 [06.4]

How aggregation sizes determine the interfacial properties of myofibrillar protein Xue Zhao

Nanjing Agricultural University, China

15:05 - 15:25 [06.5]

Preparation of conductive gold thin film by the two-dimensional assembly of gold nanoparticles on a plastic surface

Tatsuo Maruyama^{1,2}, Sarina Yoshida¹, Takane Tsuchii¹, Mimari Matsumoto¹, Kenta Morita¹ ¹Kobe University, Kobe, Japan. ²Kobe University Research Center for Membrane and Film Technology, Kobe, Japan

Young Investigator Session 6

Location: Garbi 2 Chair: Jing-Jong Shyue

15:25 - 15:45 [YI08]

Lukesh Kumar Mahato¹, Barnaby E. A.
Miles¹, Derek H. H. Chan², Spyridon Varlas²,
Daniel A. Hardy¹, Rachael E. H. Miles¹,
Steven P. Armes², Jonathan P. Reid¹
¹University of Bristol School of Chemistry,
Bristol, UK. ²The University of Sheffield
Department of Chemistry, Sheffield, UK

Antimicrobial peptide coating boosts membrane interactions and antimicrobial effects of photocatalytic nanoparticles

Lucrezia Caselli^{1,2}, Elisa Parra-Ortiz², Samantha Micciulla³, Maximilian W. A. Skoda⁴, Sara Malekkhaiat Häffner⁵, Emilie Marie Nielsen², Mariena J.A. van der Plas², Martin Malmsten^{2,1}

¹Department of Physical Chemistry 1, Lund University, Sweden. ²Department of Pharmacy, University of Copenhagen, Denmark. ³Institut Laue—Langevin, France. ⁴ISIS Pulsed Neutron and Muon Source, Rutherford Appleton Laboratory, Harwell, UK. ⁵Department of Pharmacy, University of Copenhag, Denmark

15:45 - 16:15

Refreshment Break

Location: Tramuntana 1

16:15 - 17:15

Parallel Session 7

Location: Tramuntana 2+3 Chair: Boris Kitchatov

16:15 - 16:35 [07.1]

Probing colloidal aggregation dynamics activated by external stimuli by real-time light transmission spectroscopy

Angela Capocefalo¹, Riccardo Pallucchi², Greta Peruzzi³, Carlo Rizza¹, Andrea De Marcellis⁴, Elia Palange⁴, Paolo Postorino², Barbara Ruzicka³, Claudia Fasolato³

¹Department of Physical and Chemical Sciences, University of L'Aquila, L'Aquila, Italy. ²Physics Department, Sapienza University of Rome, Rome, Italy. ³Institute for Complex Systems, National Research Council, Rome, Italy. ⁴Department of Information Engineering, Computer Science and Mathematics, University of L'Aquila, L'Aquila, Italy

16:35 - 16:55 [07.2]

Functional Janus structured liquids and aerogels

<u>Ahmadreza Ghaffarkhah</u>, Orlando J. Rojas, Mohammad Arjmand *UBC, Canada*

16:55 - 17:15 [07.3]

Physical properties of hard magnetic hexaferrite nanoplatelet colloids

Andrei Chumakov¹, Matthias Schwartzkopf¹, Dirk Menzel² ¹Deutsches Elektronen-Synchrotron DESY, Hamburg, Germany. ²TU Braunschweig University, Braunschweig, Germany

Parallel Session 8

Location: Garbi 1 Chair: Mikhael Bechelany

16:15 - 16:35 [08.1]

Simulation-assisted design and optimization of patterned surfaces for enhanced water harvesting efficiency

<u>Xingyu Chen</u>, Lan Wei, Zhong Chen Nanyang Technological University, Singapore, Singapore

16:35 - 16:55 [O8.2]

Binary Assembly of Platonic Gold Nanoparticles: Future of Metamaterials

Rahul Nag, Cyrille Hamon University Paris-Saclay, France

16:55 - 17:15 [08.3]

Effect of the meniscus on the stability of colloidal gels

Xuemao Zhou

School of Mechanical & Electrical Engineering, Guangxi Science & Technology Normal University, China. School of Physics and Astronomy, University of Edinburgh, Edinburgh, UK

Parallel Session 9

Location: Garbi 2 Chair: Patricia Bassereau

16:15 - 16:35 [09.1]

Silica nanoparticles and biomembranes: Molecular mechanisms and driving forces at the nano-biointerface Chiara Bellomo¹, Francesca Cecchet², Cristina

Pavan^{1,3}, <u>Francesco Turci</u>¹
¹University of Turin, Torino, Italy. ²University of Namur, Namur, Belgium. ³Catholic University of Louvain - Saint-Louis Brussels, Bruxelles, Belgium

16:35 - 16:55 [09.2]

Engineering biodegradable polymer nanoparticles from O/W nano-emulsions as smart carriers for the release of antioxidants across the blood-brain harrier

Carlos Rodriguez-Abreu¹, <u>Santiago Grijalvo²</u>
¹Institute of Advanced Chemistry of Catalonia, Barcelona, Spain. ²Biomedical Research Network Centre of Bioengineering Biomaterials and Nanomedicine, Zaragoza, Spain

16:55 - 17:15 [09.3]

Microfluidic preparation of polymer particles for biomedical applications: Nanoparticles and giant polymer vesicles

<u>Petr Stepanek</u>, Alessandro Jager, Eliezer Jager, Vladimir Sincari, Jiri Panek, Martin Hruby Institute of Macromolecular Chemistry Czech Academy of Sciences, Praha, Czech Republic

17:15 - 17:55

Young Investigator Session 7

Location: Tramuntana 2+3 Chair: Boris Kitchatov

17:15 - 17:35 [YI09]

Microfluidic EDGE chip allows early assessment of interfacial protein behavior Tatiana Porto Santos¹, <u>Boxin Deng</u>¹, Meinou Corstens¹, Claire Berton-Carabin^{2,1}, Karin Schroen¹

¹Wageningen University & Research, Wageningen, The Netherlands. ²National Research Institute for Agriculture Food and Environment Pays de la Loire Center, Nantes, France

17:35 - 17:55 [YI10]

Looking for the good vibrations: Tuning focused ultrasounds for lipid membrane therapy

Alexandre Blanco-González^{1,2,3}, Ángel Piñeiro¹, Rebeca García-Fandiño² ¹Departamento de Física Aplicada, Universidade de Santiago de Compostela, Santiago de Compostela, Spain.

Young Investigator Session 8

Location: Garbi 1 Chair: Mikhael Bechelany

17:15 - 17:35 [YI11]

In situ photopolymerization in lipid based liquid crystalline nanostructures

Meron Debas, Stefan Salentinig University of Fribourg, Switzerland

17:35 - 17:55 [YI12]

Rheological behaviour of pure sodium alkylethersulfate formulations: Effect of degree of ethoxylation and alkyl chain length on salt curves Stephen Flores¹, Christopher Cabry¹, Joanne Cook², Hugh Barlow³, Olga Mihailova², Carlos Avendaño¹, Christopher Hardacre¹

1 The University of Manchester, Manchester, UK.
2 Unilever R&D Port Sunlight, Wirral, UK. 3 Unilever

Safety & Environmental Assurance Centre, UK

Young Investigator Session 9

Location: Garbi 2 Chair: Patricia Bassereau

17:15 - 17:35 [YI13]

Characterization of vertically stratified films produced from binary polymer-colloid mixtures

<u>Shaveen Fernando</u>, Surita R. Bhatia Stony Brook University, Stony Brook, NY, USA

17:35 - 17:55 [YI14]

Novel material innovations for the efficient extraction and separation of critical elements Iryna Protsak¹, Martin Stockhausen¹, Aaron Brewer¹, Martin Owton², Thilo Hofmann¹, Freddy Kleitz¹

 $^{1}\mbox{University of Vienna, Wien, Austria.}\,^{2}\mbox{Independent scholar, UK}$

	² Departamento de Química Orgánica (CiQUS), Universidade de Santiago de Compostela, Spain. ³ MD.USE Innovations, S.L., Spain
17:55 - 18:00	
18:00 - 19:00	Plenary Session 4 Location: Tramuntana 2+3 Chair: Manuel Arturo Lopez-Quintela
	18:00 - 19:00 [PL04] How do microgels and proteins stabilise foams? A multiscale approach Regine von Klitzing Technical University of Darmstadt, Darmstadt, Germany
19:00 - 19:10	Conference Announcement Location: Tramuntana 2+3
19:30 - 22:00	Conference Dinner (Ticketed) Location: Restaurant Can Laury
	Wednesday 12 th June 2024
08:00 - 09:00	Registration Location: Hall Tramuntana
09:00 - 09:30	Keynote Session 9 Location: Tramuntana 2+3 Chair: Gil Garnier
	09:00 - 09:30 [KEY09] Colloid mechanisms of polyfunctional activity of superhydrophobic coatings Ludmila Boinovich Frumkin Institute of Physical Chemistry and Electrochemistry RAS, Moskva, Russia
09:30 - 10:00	Keynote Session 10 Location: Tramuntana 2+3 Chair: Gil Garnier
	09:30 - 10:00 [KEY10] In-situ Generated Smart Hydrogels for CO2 Sequestration Yujun Feng, Xinjie Luo, Dianguo Wu, Yan Zhang Sichuan University, Chengdu, China
10:00 - 10:30	Keynote Session 11 Location: Tramuntana 2+3 Chair: Gil Garnier
	10:00 - 10:30 [KEY11] Hydrotropes: Weak aggregation but strong structuration opening the road to better separation processes Thomas Zemb Institute for Separation chemistry of Marcoule, Bagnols sur Ceze, France
10:30 - 11:00	Refreshment Break Location: Tramuntana 1
11:00 - 11:30	Keynote Session 12 Location: Tramuntana 2+3 Chair: Manuel Arturo Lopez-Quintela
	11:00 - 11:30 [KEY12] Self-assembly in Deep Eutectic Solvents Karen Edler Lund University Department of Chemistry, Lund, Sweden
11:30 - 12:00	Keynote Session 13 Location: Tramuntana 2+3 Chair: Manuel Arturo Lopez-Quintela
	11:30 - 12:00 [KEY13] Nanocellulose: Precious or Sublime Material? Gil Garnier¹, Vikram Raghuwanshi¹, David Mendoza¹, Joel Hooper², Jitendra Mata³, George Simon⁴ ¹Department of Chemical and Biological Engineering, Monash University, Australia. ²School of Chemistry, Monash University, Australia. ³Australian Nuclear Science and Technology Organisation, Kirrawee, Australia. ⁴Department of Material Engineeering, Monash University, Australia

12:00 - 12:30	Keynote Session 14 Location: Tramuntana 2+3 Chair: Manuel Arturo Lopez-Quintela 12:00 - 12:30 [KEY14] Lipid membranes and membrane proteins: An intimate relationship Alicia Damm¹, Raju Regmi², Su-Jin Paik², Raj Sadhu², Jacob Kæstel-Hansen³, Nikos Hatzakis³, Pierre Sens², Daniel Lévy², Patricia Bassereau² ¹Institute Curie, France. ²Institute Curie, Paris, France. ³University of Copenhagen Niels Bohr Institute, København, Denmark
12:30 - 13:30	Lunch Location: Noray Restaurant
13:30 - 14:30	Plenary Session 5 Location: Tramuntana 2+3 Chair: Julian Eastoe 13:30 - 14:30 [PL05] Arrested emulsion structures in gels and their surprising applications Patrick Spicer UNSW Sydney, Australia
14:30 - 15:00	Closing Remarks Location: Tramuntana 2+3