

# ECIS 2022

4-9 September 2022  
Chania, Crete, Greece



## Scientific Program



## Next-generation light scattering technologies

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## Welcome

It is our great pleasure to welcome you to the 36<sup>th</sup> Conference of the European Colloid and Interface Society (ECIS 2022) that is taking place from 4<sup>th</sup> to 9<sup>th</sup> September 2022 in Chania, on the island of Crete, Greece.

ECIS 2022 is organized by the Hellenic Polymer Society, under the auspices of the ECIS, and aims to bring together researchers working in the interdisciplinary field of Colloid and Interface Science, with a broad background ranging from chemistry and physics to biology and engineering. The Scientific Program includes plenary and keynote invited lectures, as well as oral and poster contributed presentations, consisting of four parallel sessions (one of which hybrid).

The venue is the Minoa Palace, a 5-star hotel and conference center, located at the Platania resort area, a few kilometers outside the city of Chania. In addition, a short course on “Advanced Characterization and Modelling techniques for Colloids” is organized at the premises of FORTH in Heraklion on the 2<sup>nd</sup> and 3<sup>rd</sup> of September.

Complementing the scientific program, a diverse social program offers to all participants a taste of the history, culture and magnificent nature of the mountains and beaches of Crete.

As a note of caution against the COVID-19 pandemic, we strongly recommend all participants to use masks in the conference rooms and closed spaces.

We wish you a pleasant and fruitful stay.

### For the Local Organizing Committee

George Petekidis  
Maria Vamvakaki  
Benoit Loppinet

## Committees

### International Scientific Committee

**Steve Armes** | The University of Sheffield, UK  
**Hans-Jurgen Butt** | Max Planck Inst., Germany  
**Peter Schurtenberger** | Lund University, Sweden

**Sophia Antimisiaris** | University of Patras, Greece  
**Matthias Barz** | Leiden University, The Netherlands  
**Juan de Vicente** | University of Granada, Spain  
**Rafael Delgado Buscalioni** | Univ. Autón. de Madrid, Spain  
**Christian Clasen** | KU Leuven, Belgium  
**Per Claesson** | KTH, Sweden  
**Paul Clegg** | The University of Edinburgh, UK  
**Nikolai Denkov** | Sofia University, Bulgaria  
**Andreas Fery** | Leibniz Inst. for Polymer Research, Germany  
**George Floudas** | University of Ioannina, Greece  
**George Fytas** | Univ. of Crete & Max Planck Inst., Germany  
**Deniz Gunes** | KU Leuven, Belgium  
**Daniel Harries** | The Hebrew University of Jerusalem, Israel  
**John Hone** | Syngenta, Basel, Switzerland  
**Hermis Iatrou** | University of Athens, Greece  
**Arnout Imhof** | Utrecht University, The Netherlands

**Lucio Isa** | ETH Zurich, Switzerland  
**Erin Koos** | KU Leuven, Belgium  
**Theodora Krasia-Christoforou** | University of Cyprus, Cyprus  
**Marco Laurati** | University of Florence, Italy  
**Francois Lequeux** | ESPCI, Paris, France  
**Pierandrea Lo Nostro** | University of Florence, Italy  
**Harmut Löwen** | University of Düsseldorf, Germany  
**Igor Mušević** | University of Ljubljana, Slovenia  
**Laurence Ramos** | Université de Montpellier, France  
**Walter Richtering** | RWTH Aachen University, Germany  
**Maud Save** | Univ. de Pau et des Pays de l'Adour, France  
**Karin Schillén** | Lund University, Sweden  
**Joakim Stenhammar** | Lund University, Sweden  
**Anna Stradner** | Lund University, Sweden  
**Uwe Thiele** | University of Münster, Germany  
**Veronique Trappe** | University of Fribourg, Switzerland  
**Doris Vollmer** | Max Planck Inst., Germany  
**Regine von Klitzing** | TU Darmstadt, Germany  
**Piotr Warszynski** | Polish Academy of Sciences, Poland  
**Emanuela Zaccarelli** | Italian National Research Council, Italy  
**Primoz Zihel** | University of Ljubljana, Slovenia

### Local Organizing Committee

#### Co-Chairs

**George Petekidis** | Univ. of Crete & FORTH/IESL, Greece  
**Maria Vamvakaki** | Univ. of Crete & FORTH/IESL, Greece  
**Benoit Loppinet** | FORTH/IESL, Greece

**Dimitris Vlassopoulos** | Univ. of Crete & FORTH/IESL, Greece  
**Kiriaki Chrissopoulou** | FORTH/IESL, Greece  
**Spiros H. Anastasiadis** | Univ. of Crete & FORTH/IESL, Greece  
**Vagelis Harmandaris** | Univ. of Crete & FORTH/IACM, Greece

**Emmanouela Filippidi** | Univ. of Crete & FORTH/IESL, Greece  
**Eleni Pavlopoulou** | FORTH/IESL, Greece  
**Doros Theodorou** | National Techn. Univ. of Athens, Greece  
**Kostas Karatasos** | Aristotle Univ. of Thessaloniki, Greece  
**Thodoris Karapantsios** | Aristotle Univ. of Thess., Greece  
**Periklis Papadopoulos** | Univ. of Ioannina, Greece  
**Spyros Yannopoulos** | FORTH/ICE-HT, Greece

## ECIS2022 Sessions & Organizers

### Polymers, polyelectrolytes, gels, and liquid crystals

- George Floudas | University of Ioannina, Greece
- Igor Muševič | University of Ljubljana, Slovenia
- Karin Schillén | Lund University, Sweden

### Design and synthesis of colloidal systems and nanoparticles

- Hermis Iatrou | University of Athens, Greece
- Arnout Imhof | Utrecht University, The Netherlands
- Maud Save | Université de Pau et des Pays de l'Adour, France

### Colloidal dispersions, colloidal stability, and surface forces

- Per Cleason | KTH, Sweden
- Erin Koos | KU Leuven, Belgium
- Walter Richtering | RWTH Aachen University, Germany

### Theory and multi-scale modeling of colloids and interfaces

- Rafael Delgado Buscalioni | Universidad Autónoma de Madrid, Spain
- Emanuela Zaccarelli | Italian National Research Council, Italy
- Primoz Ziherl | University of Ljubljana, Slovenia

### Self-Assembly and supramolecular structures

- Christian Clasen | KU Leuven, Belgium
- Lucio Isa | ETH Zurich, Switzerland
- Anna Stradner | Lund University, Sweden

### Colloidal systems in external fields

- Marco Laurati | University of Florence, Italy
- Veronique Trappe | University of Fribourg, Switzerland
- Juan de Vicente | University of Granada, Spain

### Wetting phenomena, responsive colloids, and surfaces

- Francois Lequeux | ESPCI, Paris, France
- Uwe Thiele | University of Münster, Germany
- Doris Vollmer | Max Planck Institute for Polymer Research, Germany

### Active and bioinspired colloidal systems

- Daniel Harries | The Hebrew University of Jerusalem, Israel
- Harmut Löwen | University of Düsseldorf, Germany
- Joakim Stenhammar | Lund University, Sweden

### Colloids at interfaces, membranes and biointerfaces, emulsions and foams

- Paul Clegg | The University of Edinburgh, UK
- Nikolai Denkov | Sofia University, Bulgaria
- Regine von Klitzing | TU Darmstadt, Germany

### Colloids in biomaterials and biomedical applications

- Sophia Antimisiaris | University of Patras, Greece
- Matthias Barz | Leiden University, The Netherlands
- Pierandrea Lo Nostro | University of Florence, Italy

### Advanced colloid science for applications and products

- Deniz Gunes | KU Leuven, Belgium
- John Hone | Syngenta, Basel, Switzerland
- Piotr Warszynski | Polish Academy of Sciences, Poland

### Composite materials and nanostructures

- Andreas Fery | Leibniz Institute for Polymer Research, Germany
- Theodora Krasia-Christoforou | University of Cyprus, Cyprus
- Laurence Ramos | Université de Montpellier, France



## Chinese-European Symposium

To stimulate international cooperation, we organize a Chinese-European Symposium with contributed talks of Chinese and European researchers who cooperate on a topic in the area of colloid and interface science. These include fundamental and applied questions regarding polymers, gels, liquid crystals, nanoparticles, emulsions, foams, composites, biomaterials & -surfaces, responsive and active matter. Methods range from design and synthesis of colloidal systems and nanoparticles to multiscale computer modelling. Phenomena dealing with surface forces, self-assembly and wetting are included.

The symposium is organized by:

- Prof. Dr. Zhenghe Xu | Dean, College of Engineering, Southern University of Science and Technology, Shenzhen
- Prof. Dr. Jingcheng Hao | Dean, School of Chemistry and Chemical Engineering, Shandong University, Shandong
- Prof. Dr. Jianjun Wang | Institute of Chemistry, Chinese Academy of Sciences, Beijing
- Prof. Dr. Hans-Jürgen Butt | Max-Planck-Institute for Polymer Research, Mainz

### Satellite Session: “Tribological effects on rheology of suspensions: Surface forces, contact effects, and chemical modifications”

This two-day symposium is focused on the influence and control of surface interactions and contact forces on rheology of dispersed particulate systems; a mix of invited and contributed talks will be included. The influence of physico-chemical effects on the contact interaction, and their impact on the bulk rheology, are of interest. From colloidal gels to dense suspensions in the jamming limit, recent research has shown that the close-pair interaction has a dominant influence on the behavior of suspensions, as the influence of this tribological “contact zone” propagates to the bulk scale, altering the window of operability of processes and the absolute flowability of materials. Topics of interest include but are not limited to surface modifications including geometric (e.g., roughness modification) as well as chemical treatments, direct surface force and tribological characterization of the particle contact coupled to bulk rheology, as well as analysis and simulation of surface force effects on microscopic motions and stress bulk transmission.

The session will start on Sunday 4<sup>th</sup> September and will continue on Monday 5<sup>th</sup> September as one of the four parallel sessions of ECIS2022. The session will take place in a hybrid format (with both onsite and online presentations) and will include both invited and contributed talks.

The satellite session is organized by:

- Jeff Morris | CUNY, USA
- Wilson Poon | The University of Edinburgh, UK
- Emanuela del Gado | Georgetown University, USA
- Nic Spencer | ETH Zurich, Switzerland
- Annie Colin | ESPCI, Paris, France



## ECIS2022 Awards

A series of prizes are available in ECIS2022 for oral and poster presentations of young researchers, as well as an Art of Science Image Contest.

### Oral Presentation Awards

- One Oral Presentation Award for Young Scientists (< PhD + 7 years) is sponsored by Polymers MDPI.
- One Oral Presentation Award for a Young Researcher (< PhD + 1 year) is sponsored by Substantia.
- Three Oral Presentation Awards for Young Researchers (< PhD + 1 year) are sponsored by Enzo Ferroni.
- One Oral Presentation Award in Thematic Field of Surface Forces, Foams and Emulsions (< PhD + 7 years) is sponsored by Exerowa-Platikanov (Bulgarian Academy of Science).

### Poster Presentation Awards

- Six Poster Awards for Young Scientists (< PhD + 7 years) are sponsored by Elsevier.
- Two Poster Awards for Young Scientists (< PhD + 7 years) are sponsored by Langmuir.
- Two Poster Awards for Masters/PhD students are sponsored by Soft Matter / Polymer Chemistry (Royal Society of Chemistry).

### Art of Science Image contest

- Two Awards in the Art of Science Image Contest are sponsored by Frontiers in Chemistry.

ECIS 2022 participants are encouraged to showcase the beauty of scientific imaging by entering the first Art of Science Image Contest! Judging is based on scientific significance, originality, and artistic and/or visual impact. Images submitted for competition may be obtained using any imaging technique, may be false colored, or may be a combination/collage of multiple images into one artistic image. All images must have a connection to the theme of colloids and interfaces.

Winners will be announced at the Conference Dinner.

## General Information

### Registration

The registration desk will be open from the morning of the 4th of September at the main entrance room of the Minoa Palace Conference Venue.

Due to the COVID-19 pandemic, we highly recommend (although it is not mandatory) that all participants use masks inside the conference rooms. A mask will be provided with your conference bag. The secretariat support desk may provide Covid self-tests upon request.

### Information for Chairs and Presenters

#### Duration of presentations

Plenary Presentations: 40 minutes, plus 5 minutes for questions.

Keynote Presentations: 25 minutes, plus 5 minutes for questions.

Oral Presentations: 15 minutes, plus 5 minutes for questions.

#### Guidelines for Oral Presenters

- (1) We cannot receive presentations in advance. Please bring your presentation in a USB stick
- (2) A laptop (not a MacBook) will be available in each room.
- (3) Please use PowerPoint software (\*.ppt or \*.pptx) in size 4:3 or 16:9
- (4) We kindly ask you to upload and test your presentation in advance, during the break before your session. There will be a technician to assist you.

#### Guidelines for ONLINE Oral Presentations

Presentations will take place via Zoom.

You are kindly requested to read the attachment "[On-line Participation Guidelines](#)" to be prepared.

#### Guidelines for Session/Plenary Talk Chair

Chairs are responsible for the overall organization and coordination of their session. At the session, chairs should:

- (1) Ensure that all presenters are present in the session and have uploaded their presentation onto the laptop available in the room (presenters will do this on their own, and technical assistance will be provided)
- (2) Open the session at the scheduled time and introduce the presenters
- (3) Overlook the time, and notify presenters 5 min before the end of their presentation
- (4) Coordinate the questions and the discussion
- (5) Arrange for the smooth succession of the presentations. Note that most presentations are onsite but, there are a few online ones (usually towards the end of each session)

#### Guidelines for Poster Presenters

(1) There are two separate Poster Sessions:

Poster Session 1 is scheduled on Monday 5<sup>th</sup> September 2022 from 19:00 to 20:30 at the Athina Hall.

Poster Session 2 is scheduled on Tuesday 6<sup>th</sup> September 2022 from 19:00 to 20:30 at the Athina Hall.

(2) The max poster size is A0 (841x1189) in portrait – NOT landscape. The panel size is 1m width and 2m height.

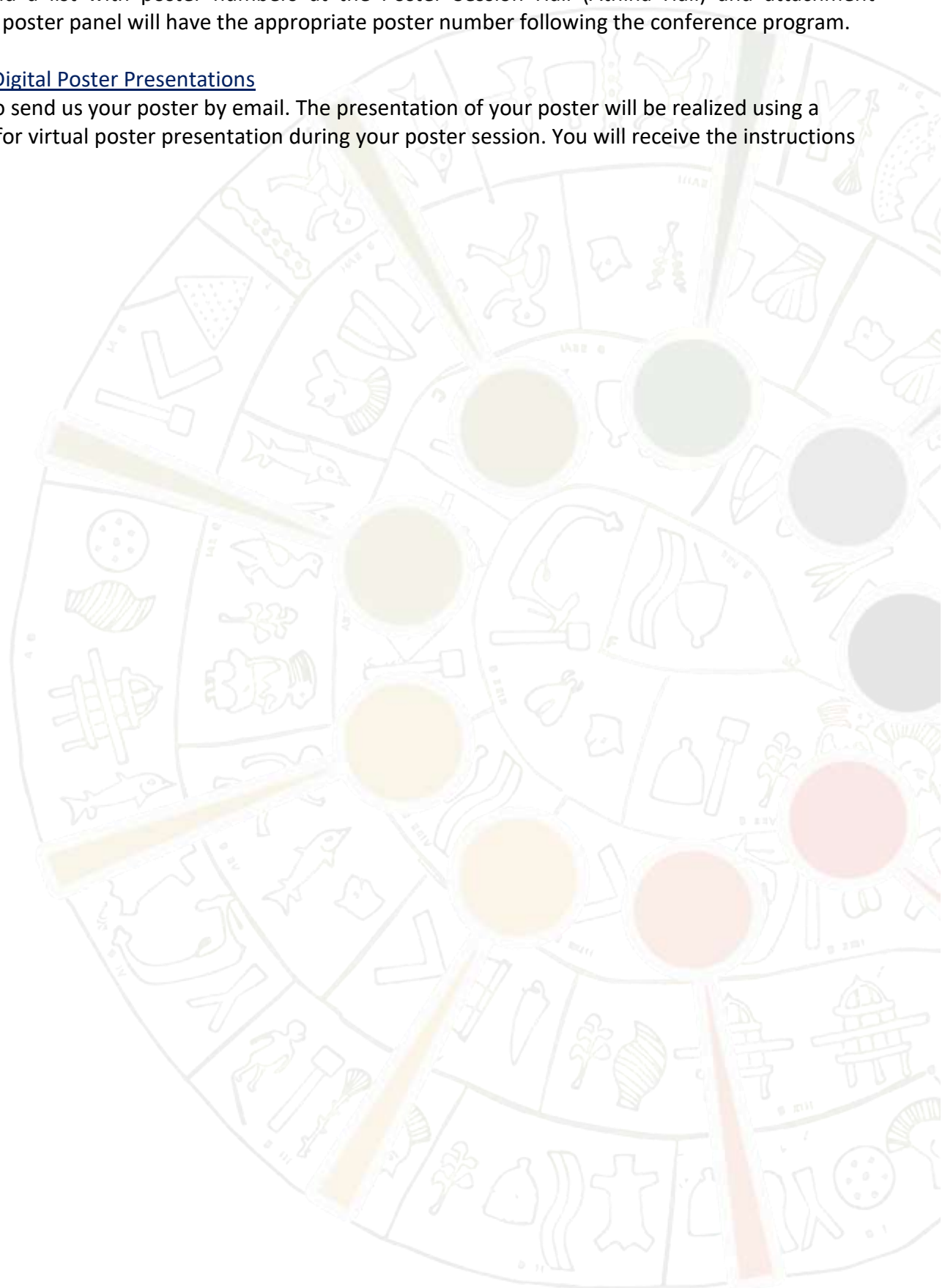
(3) Poster presenters of Poster Session 1 can hang up their poster during the morning coffee break and lunch break on the 5<sup>th</sup> and take them down during the 1<sup>st</sup> coffee break on the 6<sup>th</sup> of September. Poster

presenters of Poster Session 2 can hang up their poster during the lunch break and the afternoon coffee break on the 6<sup>th</sup> and take them off at the end of the lunch break on the 7<sup>th</sup> of September.

(4) You will find a list with poster numbers at the Poster Session Hall (Athina Hall) and attachment materials. Each poster panel will have the appropriate poster number following the conference program.

Guidelines for Digital Poster Presentations

You will need to send us your poster by email. The presentation of your poster will be realized using a special system for virtual poster presentation during your poster session. You will receive the instructions by email.





## The Venue

ECIS2022 will be hosted at the Minoa Palace Resort Hotel, a luxury 5\* beach-side hotel located in the cosmopolitan area of Platánias, 12km west of the picturesque town of Chania and 30min drive from Chania International Airport. Minoa welcomes you to experience the pleasures of indulgence in the most enchanting of settings overlooking the endless azure of the Aegean. The Resort's Congress Hall is a great venue for all sorts of corporate events, conferences, workshops & exhibitions, offering flexibility and functionality, as well as state of the art facilities and the latest audiovisual equipment.

For more information about the Venue please visit the website: <https://www.minoapalace.gr/>



Minoa Palace Resort Hotel

Platánias, Chania, Crete, Greece, 73014

Tel. +30 28210 36500

Email: [info@minoapalace.gr](mailto:info@minoapalace.gr)



## The Conference Venue Map



## How to arrive to the Venue

The **conference venue** is located in **Platanias/Chania, Crete**. Chania Airport is directly connected to several European cities by charter/seasonal flights. In addition, there are several flights from/to Athens International Airport daily. You are strongly advised to choose a flight to Chania International Airport. Alternatively, one can fly to Heraklion International Airport and reach Chania by bus or car. The driving distance between Heraklion and Chania is 142 kms.



### Bus services

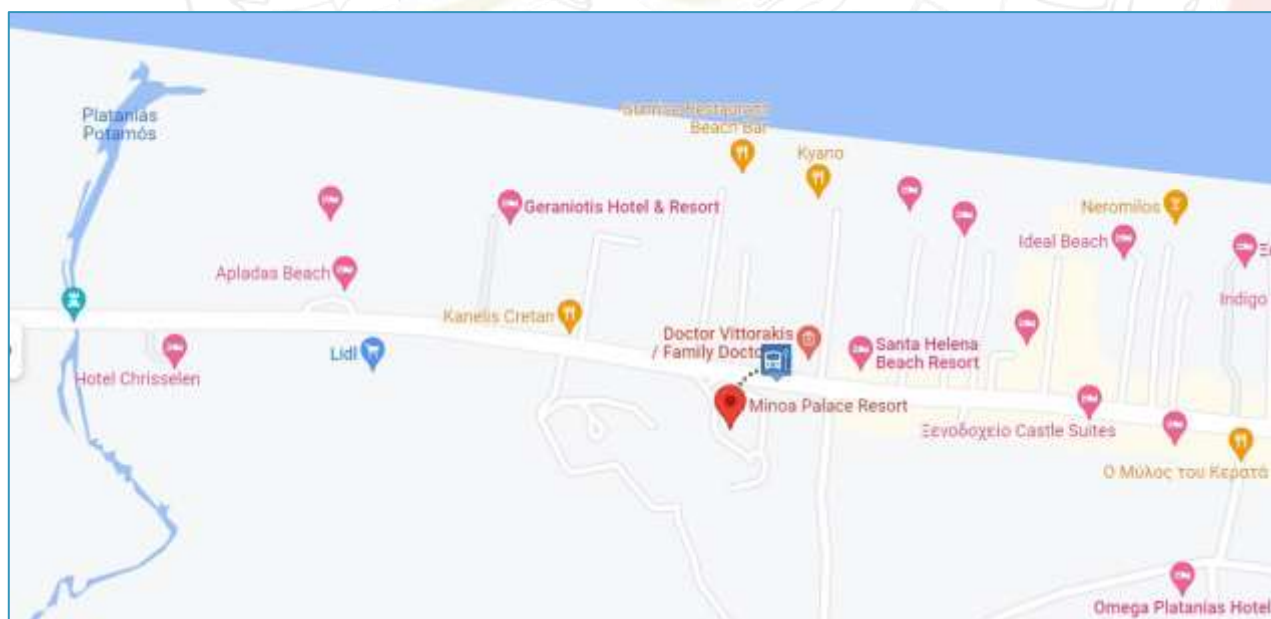
Chania airport → Chania city (Bus station)

Chania airport is located 14km from the city center, and 33.2 km away from the Conference Venue (30-40 min driving). A public bus connects the airport to the city center on a regular basis (line Chania Airport – Chania). The trip lasts approximately 30 minutes, and costs 2.30 €. For timetable and online ticket purchase check [here](#).

Chania city (Bus station) → Platanias (bus stop MINOA PALACE)

To reach the venue from Chania bus station you may use one of the following lines:

1. CHANIA-KASTELI
2. CHANIA-KOLIMPARI
3. CHANIA-PLATANIAS-GERANI
4. CHANIA-ZYMVRAGOU
5. CHANIA-DELIANA
6. CHANIA-RODOPOU
7. CHANIA-VOUKOLIES
8. CHANIA-PALAIA ROUMATA
9. CHANIA-ELAFONISI
10. CHANIA-KASTELI-FALASARNA
11. CHANIA-PALAIOCHORA







### Taxi services

Moving by taxi is quite common in Crete and prior booking is not required. You may find relevant information and indicative prices in several websites (<https://taxi4crete.gr/taxi-prices-from-kania-airport.html>, or <https://www.chaniataxi.gr/en/>)

The cost of transfer by taxi is approximately:

Chania Airport – Chania City Center ~ 25 €

Chania Airport – Conference Venue ~ 48 €

Chania City Center – Conference Venue ~ 20 €

### ECIS2022 shuttle buses

In case your flight to Crete lands to Heraklion we provide shuttle buses for transportation between Heraklion International Airport and the Conference’s Venue, at specific times, on Sunday, September 4<sup>th</sup>, and Friday, September 9<sup>th</sup>. More specifically:

**04/09/2022** From Heraklion International Airport to Conference Venue, there will be 3 different shuttle buses, **at 12:00, at 16:00 and 20:00** (Greek time)

**09/09/2022** From Conference Venue to Heraklion International Airport, there will be 3 different shuttle buses, **at 08:00, at 12:00 and 17:00** (Greek time)

You can book your transfer for the 4<sup>th</sup> or the 9<sup>th</sup> of September [here](#) until the 31<sup>st</sup> of August.

### Food and Beverages during ECIS2022

All ECIS2022 participants have access to Lunch and Coffee Breaks. Coffee and beverages will be served at different spots of the Conference Venue. Lunch will be served every day in Elia Main Restaurant. For your convenience there are two different time-slots for lunch. The time-slot allocated to each participant (Slot 1 or Slot 2) will be indicated on the name badge provided during registration. Please keep your badge on you within all Venue premises.

**We kindly ask you to respect the slot plan. It is for everyone’s convenience and safety (covid-19).**

DAY	SLOT 1	SLOT 2
Monday 5/9/22	11:55-13:00	13:00-14:20
Tuesday 6/9/22	11:55-13:00	13:00-14:20
Wednesday 7/9/22	12:45-13:45	13:45-14:20
Thursday 8/9/22	11:55-13:00	13:00-14:20
Friday 9/9/22	13:45-15:00	ONE LUNCH SLOT ONLY

## Social Activities

### Welcome Reception

The ECIS2022 Welcome Reception will take place on Sunday, September 4<sup>th</sup>, at the “Thalassa Restaurant and Bar” at Minoa Palace from 19:00 to 20:30. The Beach Bar of Minoa Palace Resort sets the ideal scenery for welcoming ECIS2022 participants in Crete and sparking the first scientific discussions!

### Conference Dinner

The Conference Dinner will take place on Thursday, September 8<sup>th</sup>, at 20.00 at “Sapel Beach Restaurant”, which is 45 minutes walk from Minoa Palace. Shuttle buses will be also provided. We have organized a high-quality dinner providing different options to cover everyone's taste. In case you have registered for the conference but have not yet booked a ticket for the conference dinner, you can still do it [here](#).

**Please book your ticket by 31<sup>st</sup> of August.**



Conference Dinner Menu will include entrance aperitif, four different starters, salad, main dish, and dessert. It will be accompanied by selected Cretan wines and beverages.

You can choose your main dish during your booking.

MEAT		SEAFOOD	VEGETARIAN-VEGAN
Roast lamb with potatoes	Roast pork with potatoes	Shrimp barley	Stuffed peppers and tomatoes (Fresh vegetables filled with rice, cooked in the oven)

Please remember to bring your name badge to the dinner. Your choice of the main dish will be indicated on your badge.

### Wednesday Afternoon Tour

Wednesday afternoon, September 7<sup>th</sup>, is devoted to socializing and networking. Three different afternoon excursions are offered to ECIS2022 participants.

**Please book the afternoon tour of your choice by 31<sup>st</sup> of August.**

#### Visit to Rethymno and the Monastery of Arkadi

This tour starts at 12.30 pm from the Conference Venue Minoa Palace Hotel (lunch box provided by the hotel). We start with a visit to the historic Monastery of Arkadi, built in 1587, which is located 23 km east from Rethymno and 80 km east of Chania. Following Arkadi, we will visit the town of Rethymno and enjoy a walk on the picturesque Port, the Venetian Fortress, and the narrow winding streets of the old town, which reveal the city's turbulent history. We will be back at the Venue before 20.30 pm.



The excursion fee is of 35 euros per person and includes transfers to/from Arkadi Historic Monastery and Rethymno Town with luxury a/c coach, one professional official English-speaking guide per coach and the entrance fee at the monastery and its museum. You can book it [here](#).

#### Hiking in Imbros Gorge

We depart at 12.30 pm from the Conference Venue Minoa Palace Hotel (lunch box provided by the hotel). Imbros Gorge is located in the province of Sfakia, south of Chania, and is the third most visited gorge in Crete. It belongs to the E4 European hiking path. The scenery is beautiful, and the low difficulty makes the descent of Imbros ideal for non-experienced hikers. The length of the gorge is 11 km and the course lasts 2-3 hours. After a break in Komitades, the village at the end of the gorge, we will visit the



Lake Kournas, the largest natural lake in Crete. The Lake is located in an enchanting landscape, between the west slopes of the White Mountains and the fertile plain of Georgioupolis. Lake Kournas and its surroundings constitute a very important ecosystem. We will be back at the Venue before 20.30 pm. Light clothing and good walking shoes are important.

The excursion fee is 30 euros per person and includes transfers to/from Imbros Gorge and the lake with luxury a/c coach, one professional English-speaking guide per coach and the entrance fee for the gorge. You can book it [here](#).

#### Visit to the Cave of Agia Sofia (Santa Sophia) and Elafonisi for swimming

We depart at 12.30 pm from the Conference Venue Minoa Palace Hotel (lunch box provided by the hotel). The Cave is located 47 km southwest of Chania, on the western walls of the gorge Topolia, near the main road to Elafonisi. On the left of the cave entrance, there is the small church dedicated to Hagia Sophia (Wisdom of God). The entrance of the cave is 25 m wide, while the height reaches 20 m in many points. The cave has two rooms with different heights, the surface of which is full of stalagmites. The cave was a very important place of worship in the ancient times. In the cave, a clay





figurine dating from the 4th century BC has been found. Moreover, Neolithic, Early Minoan, Late Minoan, Classical, Hellenistic, and Roman pottery traces have been found.

Elafonisi is located 76 km west of Chania and 5 km south of Chrysoskalitisa Monastery, in the south westernmost tip of Crete. Elafonisi is an oblong peninsula, which often breaks in two parts by water giving the impression of being a separate island. It is a Natura 2000 protected area. The endangered loggerhead sea turtle and several rare animals and plants find shelter on the island; it is strictly forbidden to remove any plants, animals, shells, and sand from the area. There will be time for swimming. The excursion fee is of 30 euros per person and includes transfers with luxury a/c coach and one professional English-speaking guide per coach. You can book it [here](#).



Crete and Chania offer numerous options for diverse activities that will keep accompanying persons busy during the Conference hours. Sightseeing, historical/archeological visits, sports, hiking, diving, are just a few of them. Information can be found on several websites, or in situ. These are two of the most complete websites regarding Crete:

- <https://www.incrediblecrete.gr/en/>
- <https://www.cretanbeaches.com/en/>

## Program at a glance

**Sunday, 4<sup>th</sup> September 2022**

09:00-19:00	<b>Registration</b> <i>Imperial Hall, Entrance</i>
14:30-16:30	<b>Satellite Meeting (Invited Talks)</b> <b><i>Tribological effects on rheology of suspensions: Surface forces, contact effects, and chemical modifications</i></b> <i>Imperial Hall, Room 1 (Hybrid)</i>
	<b>Chair: Jeff Morris</b> , Cuny City College of New York
14:30	<b>Lars Pastewska</b> , University of Freiburg <i>"How roughness affects surface forces"</i>
15:00	<b>Lucio Isa</b> , ETH Zurich <i>"Sliding or rolling? Characterizing single-particle contacts"</i>
15:30	<b>Emmanuel Trizac</b> , Paris-Saclay University <i>"Like-charge attraction: old and new"</i>
16:00	<b>Rosa Espinosa-Marzal</b> , University of Illinois at Urbana-Champaign <i>"At the intersection between nanorheology and nanotribology of ionic liquids"</i>
16:30-17:00	<b>Coffee Break</b>
17:00-19:00	<b>Satellite Meeting (Invited Talks)</b> <b><i>Tribological effects on rheology of suspensions: Surface forces, contact effects, and chemical modifications</i></b> <i>Imperial Hall, Room 1 (Hybrid)</i>
	<b>Chair: Guillaume Ovarlez</b> , CNRS - LOF
17:00	<b>Anwasha Sarkar</b> , University of Leeds <i>"Designing biorelevant surfaces for soft tribology across length scales"</i>
17:30	<b>Annie Colin</b> , ESPCI Paris PSL <i>"Solvent role on polymeric bead suspensions"</i>
18:00	<b>Elisabeth Lemaire</b> , Institut de Physique de Nice <i>"Shear-thinning behaviour in non-Brownian suspensions: The role of contact forces"</i>
18:30	<b>Heinrich Jaeger</b> , University of Chicago <i>"Contact forces and surface interactions in dense suspensions"</i>
19:00-20:30	<b>Welcome Reception</b> <i>Minoa Palace Resort Beach Bar</i>

## Plenary Lectures and Keynote Speakers for Monday 5<sup>th</sup> of September

### Plenary Lecture

**Christos Likos** (University of Vienna, Austria) is full Professor of Physics at the University of Vienna. He studied Electrical Engineering at the National Technical University of Athens and obtained a M.Sc. and Ph.D. in Physics from Cornell University in 1993, working with Neil Ashcroft and Chris Henley. He has been an Alexander von Humboldt Fellow at the University of Munich, a Heisenberg Fellow at Cambridge University and Research Fellow in Juelich, before becoming Professor of Physics at the University of Duesseldorf in 2003. As of 2010, he is Professor of Physics at the University of Vienna, where he has also been Senior Fellow of the Erwin Schrodinger Institute in 2007. His research interests revolve around coarse-graining strategies to examine structure, dynamics, self-assembly and rheology of complex fluids. Prof. Likos received various distinctions and fellowships, among which the Fellowship of the Royal Society of Chemistry. <https://comp-phys.univie.ac.at/likos/>



### Keynote Speakers

K.N. 1.1 Jacob Klein | Weizmann Institute of Science, Israel

K.N. 1.2 Martin Buzza | University of Hull, U.K.

K.N. 1.3 Emilie Verneuil | ESPCI, Paris, France

K.N. 1.4 Wuge Briscoe | University of Bristol, U.K.

K.N. 2.1 Lilian Hsiao | North Carolina State University, U.S.A.

K.N. 2.2 Janne-Mieke Meijer | Eindhoven University of Technology, Netherlands

K.N. 2.3 Bjoern Braunschweig | University of Münster, Germany

K.N. 2.4 Ramon Castaneda-Priego | University of Guanajuato, Mexico

To help you find the place and time for Keynote Speakers, we use numbers next to the initials K.N. (Keynote). We “divided” the day into two parts, before and after the lunch break. Number 1 is before the lunch break and number 2 is after the lunch break. The next number is the Room number where the Keynote will take place.

(Example (K.N.2.4) → 2 stands for after the lunch break, 4 stands for Imperial Hall Room 4)



Monday, 5<sup>th</sup> September 2022

08:15-08:30	<b>Imperial Hall Room 1 (Hybrid)</b>			
	Welcome			
08:30-09:15	<b>Plenary Talk</b> <b>Christos Likos</b> , University of Vienna <i>“Cluster Crystals: from a theorist’s toy model to experimental realization”</i> <b>Chair: Peter Schurtenberger</b> , Lund University			
09:15-09:45	Coffee Break			
09:45-11:55	<b>Imperial Hall Room 1 (Hybrid)</b>	<b>Imperial Hall Room 2</b>	<b>Imperial Hall Room 3</b>	<b>Imperial Hall Room 4</b>
	<b>Satellite Meeting</b> <i>“Tribological effects on rheology of suspensions: Surface forces, contact effects, and chemical modifications”</i>	<b>Self-Assembly and Supramolecular Structures</b>	<b>Wetting Phenomena, Responsive Colloids and Surfaces</b>	<b>Colloidal Dispersions, Colloidal Stability and Surface Forces</b>
	<b>Chair</b> <b>Annie Colin</b> , ESPCI Paris PSL	<b>Chair</b> <b>Anna Stradner</b> , Lund University	<b>Chair</b> <b>Francois Lequeux</b> , ESPCI Paris PSL	<b>Chair</b> <b>Erin Koos</b> , KU Leuven
09:45	<b>KN 1.1: Jacob Klein</b> , Weizmann Institute <i>“Colloidal interactions and the viscoelectric effect”</i>	<b>KN 1.2: Martin Buzza</b> , University of Hull <i>“Defined core-shell particles as the key to complex interfacial self-assembly”</i>	<b>KN 1.3: Emilie Verneuil</b> , ESPCI Paris PSL <i>“Dramatic slowing down of oil/water/silica contact line dynamics driven by cationic surfactant adsorption on the solid”</i>	<b>KN 1.4: Briscoe Wuge</b> , University of Bristol <i>“Centipede” statistical polymer under nano-confinement: surface forces, superlubricity, and transient interfacial gels”</i>
10:15	<b>OP: Lily Blaiset</b> , Université de Paris <i>“Rheological and frictional behavior of soft particles”</i>	<b>OP: Marco Hildebrandt</b> , Heinrich-Heine-University <i>“Core-shell microgels as soft model colloids to study phase behaviour in dense packings via small angle X-ray scattering”</i>	<b>OP: Frieder Mugele</b> , University of Twente <i>Spreading of volatile oils on swelling hydrophobic polymer brush layers”</i>	<b>OP: Yu Zhang</b> , Weizmann Institute of Science <i>“Effect of membrane stability in friction manipulation using electric fields”</i>
10:35	<b>OP: Yu-Fan Lee</b> , TU DELFT <i>“Transient microstructure, rheology of shear thickening colloidal suspensions by time resolved Flow-SANS and relation to nanotribology”</i>	<b>OP: Marco Laurati</b> , University of Florence <i>“Tunable blunt-end interactions drive the assembly of quasi-two-dimensional dispersions of dsDNA coated colloids”</i>	<b>OP: Marion Grzelka</b> , University of Amsterdam <i>“Spreading of a precursor film on controlled nanorough defects”</i>	<b>OP: Dong Woog Lee</b> , Ulsan Nat. Inst. of Science and Technology <i>“Quantification of size-compatible host-guest interactions using a surface forces apparatus”</i>
10:55	<b>OP: Sam Brown</b> , University of Edinburgh <i>“Surface forces and shear thickening in silica suspensions”</i>	<b>OP: Frederic Grabowski</b> , DWI – Leibniz-Institute for Interactive Materials <i>“Asymmetric microgels by supramolecular assembly and precipitation polymerization of pyrazole-modified monomers”</i>	<b>OP: Matthias Karg</b> , Heinrich-Heine-University Duesseldorf <i>“Optical properties of thermoresponsive microgels: experimental and theoretical insights into the volume phase transition”</i>	<b>OP: J. Alejandro Rivera Moran</b> , Forschungszentrum Jülich <i>“On the effect of morphology and particle-wall interaction on colloidal near-wall dynamics”</i>

11:15	<b>OP: Bloen Metzger,</b> CNRS <i>"The Capillarytron: a new rheometer to probe the frictional rheology of colloidal suspensions"</i>	<b>OP: Chiara Moretti,</b> CNRS <i>"Synthesis and self-assembly of colloidal nanoparticles into two-dimensional superlattices"</i>	<b>OP: Quinn Besford,</b> Leibniz Institute for Polymer Research <i>"Mechanofluorescent polymer brush surfaces that spatially resolve surface solvation"</i>	<b>OP: Max Martens,</b> Eindhoven University of Technology <i>"Effect of polymer chain stiffness on depletion layers and interactions in colloid-polymer mixtures"</i>
11:35	<b>OP: Ishida Naoyuki,</b> Okayama University <i>"Affinity between surface and solvent molecules dominates the interaction forces between surfaces in organic solvents"</i>	<b>OP: Etienne Fayen,</b> Laboratoire de Physique des Solides <i>"Quasi-crystals in binary (non)-additive hard disk mixtures"</i>	<b>OP: Xiaomei Li,</b> Max Planck Institute for Polymer Research <i>"How spontaneous charging in sliding drops affects their motion"</i>	<b>OP: Yujie Jiang,</b> Wenzhou Institute, Univ. of Chinese Academy of Sciences <i>"Colloidal gels with non-sticky dopings"</i>
11:55-14:20	<b>Lunch Break</b> <i>Minoa Palace Main Restaurant</i>			
14:20-16:30	<b>Imperial Hall Room 1 (Hybrid)</b>	<b>Imperial Hall Room 2</b>	<b>Imperial Hall Room 3</b>	<b>Imperial Hall Room 4</b>
	<b>Satellite Meeting</b> <i>"Tribological effects on rheology of suspensions: Surface forces, contact effects, and chemical modifications"</i>	<b>Self-Assembly and Supramolecular Structures</b>	<b>Wetting Phenomena, Responsive Colloids and Surfaces</b>	<b>Colloidal Dispersions, Colloidal Stability and Surface Forces</b>
	<b>Chair Elisabeth Lemaire,</b> Institut de Physique de Nice	<b>Chair Thomas Palberg,</b> Johannes Gutenberg University	<b>Chair Doris Vollmer,</b> Max Planck Institute for Polymer Research	<b>Chair Briscoe Wuge,</b> University of Bristol
14:20	<b>KN 2.1: Lilian Hsiao,</b> North Carolina State University <i>"Soft triborheology of elastomers with colloid-laden lubricants"</i>	<b>KN 2.2: Janne-Mieke Meijer,</b> Eindhoven University of Technology <i>"Shape matters: tuning the self-assembly of colloidal cube superstructures"</i>	<b>KN 2.3: Bjoern Braunschweig,</b> University Muenster <i>"Dynamic wetting of photo-responsive arylazopyrazole monolayers is controlled by the molecular kinetics of the monolayer"</i>	<b>KN 2.4: Ramon Castaneda-Priego,</b> University of Guanajuato <i>"Reversible cluster formation in colloidal dispersions with short-range attractive interactions"</i>
14:50	<b>OP: James Richards,</b> University of Edinburgh <i>"Anomalous stribeck curve exponent for hydrodynamic lubrication of conformal surfaces"</i>	<b>OP: Minghan Hu,</b> ETH Zürich <i>"Multi-compartment supracapsules made from nanocapsules towards programmable release"</i>	<b>OP: Tomas Corrales,</b> Universidad Técnica Federico Santa María <i>"Nanoscale interaction of water with organic interfaces"</i>	<b>OP: Lucas Luciano Cullari,</b> Ben-Gurion University of the Negev <i>"Kinetically arrested dispersions of carbon allotropes in aqueous solutions"</i>
15:10	<b>OP: Guillaume Ovarlez,</b> CNRS - LOF <i>"Melting and shear jamming of vibrated suspensions"</i>	<b>OP: Maria Chiara Di Gregorio,</b> Sapienza Univ. of Rome <i>"Versatile self-assembling nanotubes responding to light stimulus: bio-origin, chirality and stability"</i>	<b>OP: Xhorxhina Shauli,</b> University of Fribourg <i>"dSTORM super resolution microscopy of pNIPAM microgels"</i>	<b>OP: Antara Pal,</b> Lund University <i>"Self-assembly and dynamics of colloidal rods"</i>

15:30	<b>OP: Meera Ramaswamy,</b> Cornell University <i>"Universal scaling in shear thickening suspensions"</i>	<b>OP: Patrick Hage,</b> Eindhoven University of Technology <i>"Light- and temperature-controlled self-assembly of isotropic and patchy microparticles"</i>	<b>OP: Matthieu Roche,</b> CNRS – U. Paris Cite <i>"Droplet dynamics on inclined soft surfaces"</i>	<b>OP: Gabriela Schmidt,</b> University Freiburg <i>"Influence of the hardness on the crystallization behaviour of binary polystyrene microgel systems"</i>
15:50	<b>OP: Francisco Rocha,</b> AIX-Marseille University <i>"Shear-thickening suspensions in a large-gap Couette flow: from steadiness to unsteadiness"</i>	<b>OP: Karin Schillen,</b> Lund University <i>"Condensed supramolecular helices: the twisted sisters of DNA"</i>	<b>OP: Christopher Henkel,</b> WWU Münster <i>"Describing liquid drops on elastic substrates: Mesoscale model vs. macroscale model and experiment"</i>	<b>OP: Florian Benedetti,</b> TU Wien <i>"Combining force inference and holographic microscopy to measure colloidal interactions"</i>
16:10	<b>OP: Simon Scherrer</b> ETH Zürich <i>"Measuring rolling friction of microparticles using lateral force microscopy"</i>	<b>OP: Stergios Pispas,</b> National Hellenic Research Foundation <i>"Hyperbranched copolymer colloids"</i>	<b>OP: Yoav Tsori,</b> Ben-Gurion University of the Negev <i>"Liquid nucleation around charged particles and electro-wetting phase lines"</i>	<b>OP: Khushboo Suman,</b> University of Delaware <i>"Anomalous rheological aging of a model thermoreversible colloidal gel following a thermal quench"</i>
16:30-17:00	<b>Coffee Break</b>			
17:00-19:00	<b>Imperial Hall Room 1 (Hybrid)</b>	<b>Imperial Hall Room 2</b>	<b>Imperial Hall Room 3</b>	<b>Imperial Hall Room 4</b>
	<b>Colloids at Interfaces, Membranes and Biointerfaces, Emulsions and Foams</b>	<b>Polymers, Polyelectrolytes, Gels and Liquid Crystals</b>	<b>Wetting Phenomena, Responsive Colloids and Surfaces</b>	<b>Colloidal Dispersions, Colloidal Stability and Surface Forces</b>
	<b>Chair Job Thijssen,</b> University of Edinburgh	<b>Chair Thomas Hellweg,</b> Bielefeld University	<b>Chair Tomas Corrales,</b> Universidad Técnica Federico Santa María	<b>Chair Ramon Castaneda-Priego,</b> University of Guanajuato
17:00	<b>OP: Valerie Ravaine,</b> University of Bordeaux <i>"Responsive microgels at drop surfaces: from Pickering emulsions to colloidosomes"</i>	<b>OP: Oleg Rud,</b> Charles University in Prague <i>"Water desalination using polyelectrolyte hydrogel. Gibbs ensemble modelling"</i>	<b>OP: Periklis Papadopoulos,</b> University of Ioannina <i>"Wenzel-to-Cassie transition on lubricant-impregnated surfaces"</i>	<b>OP: Georg Papastavrou,</b> University of Bayreuth <i>"The random sequential adsorption model revisited: Elucidating the substrate influence by potentiostatic control of an electrode"</i>
17:20	<b>OP: Lea Waldmann,</b> Institut of Molecular Sciences <i>"Thermo-induced inversion of water-in-water emulsion stability by bis-hydrophilic microgels"</i>	<b>OP: Emmanouil Glynos,</b> IESL - FORTH <i>"Single-ion electrolytes composed of polyanionic polymer particles"</i>	<b>OP: Katharina Hegner,</b> Max Planck Institute for Polymer Research <i>"Super-amphiphobic surfaces for ultrafast single bubble bursting and bulk defoaming"</i>	<b>OP: Joe Bradley,</b> University of Edinburgh <i>"Sizing multimodal systems with differential dynamic microscopy"</i>
17:40	<b>OP: Marcel Rey,</b> University of Gothenburg <i>"On the breaking mechanism of temperature-responsive emulsions"</i>	<b>OP: Barbara Capone,</b> Roma Tre University <i>"Design smart polymeric materials for controlled selective and reversible adsorption at the nanoscale"</i>	<b>OP: Pawan Kumar,</b> University of Melbourne <i>"Predicting Contact Angle Hysteresis via Micro-scale Interface Dynamics on Random and Periodic Rough Surfaces"</i>	<b>OP: Michael Kappl,</b> Max Planck Institute for Polymer Research <i>"Controlling supraparticles shape and structure by tuning colloidal interactions"</i>



18:00	<b>OP: Sebastian Stock,</b> TU Darmstadt <i>"Incorporation of hydrophilic microgel at water-in-oil emulsion interface stabilized by hydrophobic nano-spheres"</i>	<b>OP: Patrick Guenoun,</b> University Paris-Saclay, CEA <i>"Phase separation of concentrated polymer solutions for making porous filtration membranes"</i>	<b>OP: Mohammad Abo-Jabal,</b> Technion Israel Institute of Technology <i>"Coupling between wetting dynamics, Marangoni vortices, and localized hot cells in volatile binary solutions drops"</i>	<b>OP: Catherine Amiel,</b> University Paris-Est Créteil <i>"Tailoring nanoparticle clustering by adsorption of poly(methacrylic acid) onto differently charged silica nanoparticles"</i>
18:20	<b>OP: Jacopo Vialetto,</b> ETH Zurich <i>"Controlling the three-dimensional shape of soft particles at fluid interfaces and how this affects their two-dimensional assembly"</i>	<b>OP: Rachel Yerushalmi-Rozen,</b> Ben Gurion University <i>"Modification of acid-base equilibria of weak polyelectrolytes in complex fluids"</i>	<b>OP: Ankur Chattopadhyay,</b> Aalto University <i>"Drying patterns of liquid bridge: coffee ring to scallop shell"</i>	<b>OP: Marius Otten,</b> Heinrich-Heine-University <i>"Optical characterization of complex core-shell copolymer microgels"</i>
18:40	<b>OP: Alexander Petrunin,</b> RWTH Aachen University <i>"Ultra-low crosslinked nanogels combine polymer and particle properties as emulsion stabilizer"</i>	<b>OP: Vitaly Kocherbitov,</b> Malmö University <i>"Activity of water absorbed in hydrophilic glassy polymers"</i>	<b>OP: Alice Pelosse,</b> CNRS <i>"Probing dissipation length scale in spreading drops using granular suspensions"</i>	<b>OP: Magdaleno Medina-Noyola,</b> Universidad Autónoma de San Luis Potosí <i>"Non-equilibrium dynamic arrest diagram of SALR fluids"</i>

19:00-20:30	<b>Poster Session 1</b> <i>Athina Hall (Hotel Main Building)</i>			
<b>Polymers, Polyelectrolytes, Gels and Liquid Crystals</b>				
PP 1.001	<b>Luigi Gentile</b> <i>"Pluronic F127 as a sol-gel matrix for drug delivery carriers"</i>			
PP 1.002	<b>Max Dombrowski</b> <i>"Nematic Lyotropic Liquid Crystal Gels"</i>			
PP 1.003	<b>Eugénia Delacou</b> <i>"Characterisation of an ultrathin polymer film using quartz crystal microbalance and phase modulation ellipsometry"</i>			
PP 1.004	<b>Nadja Wolter</b> <i>"Design of asymmetric microgels with liquid crystalline domains via precipitation polymerization"</i>			
PP 1.005	<b>Abhishek Rajbanshi</b> <i>"Thermoresponsive engineered emulsion enabled by branched copolymer surfactants"</i>			
PP 1.006	<b>Pavlna Marková</b> <i>"Benzoxaborole-derived drug delivery by amphiphilic block copolymers with vicinal diols"</i>			
PP 1.007	<b>Sebastian Pineda</b> <i>"acid/base ionization of oligolysines in presence of oppositely charged polyelectrolytes"</i>			

PP 1.008	<b>Juraj Nikolić</b> <i>"Influence of an anchoring layer on the properties of chitosan-carboxymethylcellulose multilayers"</i>
PP 1.009	<b>Sara Del Galdo</b> <i>"Addressing the role of hydrophobic interactions to tune thermoresponsiveness in model polymeric systems"</i>
PP 1.010	<b>Michael Stevens</b> <i>"The impact of molecular architecture of block copolymers on lubrication efficacy in non-aqueous media"</i>
PP 1.011	<b>Edwin Johnson</b> <i>"Interrogating the factors which influence post-polymerization functionalization"</i>
PP 1.012	<b>Corinna Dannert</b> <i>"Impact of charge in disordered peptide tails on PAMAM - DNA binding"</i>
PP 1.013	<b>Terpsichori Alexiou</b> <i>"Solvent quality effects on DNA minicircles"</i>
PP 1.014	<b>Marcus Wanselius</b> <i>"The physicochemical aspects of subcutaneous drug delivery: Gel models and microfluidic screening tools"</i>
PP 1.015	<b>Ondrej Sedlacek</b> <i>"Antifouling properties of poly(2-oxazoline)s and poly(2-oxazine)s: Direct comparison of polymer-coated gold surfaces at same coating parameters"</i>
PP 1.016	<b>Thomke Belthle</b> <i>"Counterion effects on thermoresponsive cationic microgels with ionic liquid moieties"</i>
PP 1.017	<b>Tuuva Kastinen</b> <i>"Effect of pH on the complexation and secondary structures of self-assembling polypeptides"</i>
PP 1.018	<b>Piotr Batys</b> <i>"From a single molecule to smart material - understanding the polypeptide complexes formation and properties"</i>
PP 1.019	<b>Evdokia Stefanopolou</b> <i>"GelMA-Dextran Aqueous Two-Phase Systems with Tuneable Pores Organization"</i>
PP 1.020	<b>Sandra Forg</b> <i>"Mussel-inspired stimuli-responsive PNIPAM microgels"</i>
PP 1.021	<b>Georgia Nikolakakou</b> <i>"The Effect of Macromolecular Architecture on the Conductivity-Mechanical Modulus Relationship in Single-ion Polymer Blend Electrolytes"</i>
PP 1.022	<b>Konstantina Lyroni</b> <i>"Structure and viscoelasticity of fibrillar collagen suspensions utilized in regenerative medicine scaffolds"</i>
PP 1.023	<b>Katarzyna Byś</b> <i>"Structural Transformation and Charge Regulation of Heparin- and Amino-Acid-Mimicking Polyampholytes"</i>

PP 1.024	<b>Regina Pereira</b> <i>"New wound care material based on bacterial cellulose and flavonoid rutin"</i>
PP 1.025	<b>Thierry Hellebois</b> <i>"Assessment of the muco-adhesion potential of green extracted gums from plant seeds"</i>
PP 1.026	<b>Christos Soukoulis</b> <i>"Rheological, structural and thermophysical characteristics of thermo-reversible hydrogels filled with beeswax structured oil-in-water emulsions"</i>
PP 1.027	<b>Julia Parlow</b> <i>"Novel in vitro models for subcutaneous administration – Peptide diffusion in polyelectrolyte gels"</i>
PP 1.028	<b>Ólaith Skelton</b> <i>"Differential Dynamic Microscopy to Characterise Fluctuating Nematic Liquid Crystals"</i>
PP 1.029	<b>Maria Psarrou</b> <i>"Light-cleavable polyacylhydrazone-based drug carriers"</i>
PP 1.030	<b>Malak Alaa Eddine</b> <i>"Filtration through controlled permeability hydrogels"</i>
PP 1.031	<b>Theodoros Manouras</b> <i>"Novel diblock copolymer coatings with self-renewable antimicrobial properties"</i>
PP 1.032	<b>Danila Gorgol</b> <i>"3D printed scaffolds based on graphene oxide particles and poly(styrene-butadiene-strene) thermoplastic elastomer"</i>
PP 1.033	<b>Lee Shool</b> <i>"Apparent Young-violating concave-convex switching of curved oil-water menisci"</i>
PP 1.034	<b>Zofia Krasieńska-Krawet</b> <i>"Adsorption and aggregation properties of hydrophobically functionalized polyanions. Novel materials for pH sensitive nanostructures formation."</i>
PP 1.035	<b>Clémence Le Cœur</b> <i>"Slow phase transition of Poly (methacrylic acid) in semi-diluted regime"</i>
PP 1.036	<b>Sivkova Radoslava</b> <i>"Post-polymerization modification of polymer brush surface coatings based on active esters"</i>
PP 1.037	<b>Maria Morga</b> <i>"pH-induced Changes in Formation and Stability of Polypeptide Monolayers: Experimental Studies and MD Modeling"</i>
PP 1.038	<b>Maria Morga</b> <i>"Poly-L-arginine and Poly-L-lysine Molecule Characteristics in Simple Electrolytes: Experiments and Molecular Dynamic Modeling"</i>
PP 1.039	<b>Xiangmeng Li</b> <i>"Reversible Electro-thermally Bending Soft Gripper with Triple-Layered Polymers and a Dry Adhesive Surface"</i>



PP 1.040	<b>Jonas Blahnik</b> <i>"The Impact of Surfactant-Free Mesostructured Liquids on Free-Radical Polymerizations in Those"</i>
PP 1.041	<b>Gavino Bassu</b> <i>"Confining effects of transparent PEG hydrogels on microgel transport"</i>
PP 1.042	<b>Lilian Guillemeny</b> <i>"Synthesis, structure, and gelling power of <math>\gamma</math>-In2S3 nanoribbons with large aspect ratio"</i>
PP 1.043	<b>Roman Staño</b> <i>"Stack cluster formation in dense solutions of DNA mini-rings: a simulation study"</i>
PP 1.044	<b>Roman Staño</b> <i>"Confining effects of transparent PEG hydrogels on microgel transport"</i>
PP 1.045	<b>Hongxiang Liu</b> <i>"GSHU, a parameter to generalize and regulate the degree of enzymolysis on the granule starches"</i>
PP 1.046	<b>Pedro A. Sánchez</b> <i>"Structure and electrostatic properties of polyelectrolyte dendrimer brushes"</i>
PP 1.047	<b>Natalie Gjerde</b> <i>"Influence of poly(<math>\epsilon</math>-caprolactone) end-groups on the temperature induced macroscopic gelation of Pluronic in aqueous media"</i>
PP 1.048	<b>P. Zeynep Culfaz-Emecen</b> <i>"Controlled deposition of cellulose nanocrystals for tuning ultrafiltration membrane performance"</i>
PP 1.049	<b>P. Zeynep Culfaz-Emecen</b> <i>"Polyelectrolyte multilayer membranes via layer-by-layer assembly of cellulose-based polyelectrolytes"</i>
PP 1.050	<b>Pablo M. Blanco</b> <i>"Simulations and potentiometric titrations enable reliable determination of effective pKa values of various polyzwitterions"</i>
PP 1.051	<b>Raju Lunkad</b> <i>"Both Charge-Regulation and Charge-Patch Distribution Can Drive Adsorption on the Wrong Side of the Isoelectric Point"</i>
PP 1.052	<b>Saikat Chakraborty</b> <i>"Data-driven Investigations on Topologically Constrained Conformal Fluctuations in Entangled Polymer Melt"</i>
PP 1.053	<b>Ognen Pop-Georgievski</b> <i>"Biofunctional Polymer Brush Coatings on the nanoscale"</i>
PP 1.054	<b>Maria Zoumpantioti</b> <i>"Encapsulation of Phycocyanin in hydrogels"</i>
PP 1.055	<b>Loic Hilliou</b> <i>"Structure-rheology relationships in gelling carrageenan hydrocolloids"</i>

## Design and Synthesis of Colloidal Systems and Nanoparticles

PP 1.056	<b>Torsten Gereon Linder</b> <i>"Coreshell interfacial interpenetration control forms microgels with switchable elasticity"</i>
PP 1.057	<b>Maria Karayianni</b> <i>"Electrostatically cross-linked chitosan nanoparticles intended for agricultural use"</i>
PP 1.058	<b>Laura Hetjens</b> <i>"Biobased flame retardant coatings based on polyphenol-polyphosphazene colloids"</i>
PP 1.059	<b>Federica Bertelà</b> <i>"Silver Nanoparticles stabilized with citrate and L-cysteine: structural and toxicological studies"</i>
PP 1.060	<b>Takumi Kawamura</b> <i>"Controlling Self-Propelled Motion of Polystyrene Particles with Pt Spots Deposited by UV Irradiation Technique"</i>
PP 1.061	<b>Dimitrios Selianitis</b> <i>"Dual-responsive P(DEGMA-co-DIPAEMA) hyperbranched copolymers as drug-loaded self-assembled nanocarriers"</i>
PP 1.062	<b>Jelena Papan</b> <i>"Highly stabile colloids of barium hexaferrite nanoplatelets coated with tannic acid"</i>
PP 1.063	<b>Evangelia Vasilaki</b> <i>"Non-cross-linked, hollow polymer capsules derived from amphiphilic diblock copolymer brushes in aqueous media"</i>
PP 1.064	<b>Andrei Mitrofanov</b> <i>"Chemical Structure Engineering of Naphthalene Spacers in Low-Dimensional Perovskites"</i>
PP 1.065	<b>Ali Zeeshan</b> <i>"Control of Particle Size, Particle Size Distribution and Morphology of Silica Coated Iron Oxide Nanoparticles"</i>
PP 1.066	<b>Kata Dorbic</b> <i>"Synthesis of polymeric particles with multiple lobes"</i>
PP 1.067	<b>Frank D. Bradley</b> <i>"Functional Janus particles from complex emulsions: simple design of nano-to-microscale precision objects"</i>
PP 1.068	<b>Matija Tomsic</b> <i>"Structural study of non-graphitizable carbons from corn cobs for negative sodium ion battery electrodes"</i>
PP 1.069	<b>Matija Tomsic</b> <i>"Dispersions of Delaminated Double Hydroxides in Ionic Liquids"</i>
PP 1.070	<b>Luca Stefanuto</b> <i>"Design and synthesis of stimuli-responsive polymers for wastewater treatment"</i>

PP 1.071	<b>Bifen Chen</b> <i>"Correlation between physicochemical and emulsion-stabilizing properties of insoluble soybean fiber obtained by different ultrasound-assisted autoclaving alkaline treatments"</i>
PP 1.072	<b>Erzsebet Illes</b> <i>"Graphite oxide/nickel ferrite nanocomposites for magnetic hyperthermia"</i>
PP 1.073	<b>Edit Csapo</b> <i>"Noble metal nanoclusters with structure-tunable fluorescent properties: synthesis, characterization and biomedical utilizations"</i>
PP 1.074	<b>Konstantia Nathanael</b> <i>"Design of experiments to model the size of AgNPs in microfluidic synthesis"</i>
PP 1.075	<b>Max Schelling</b> <i>"Inducing defects in colloidal crystals"</i>
PP 1.076	<b>Lu Peng</b> <i>"Size-Controlled Co-Fe Alloy Wrapped on Nitrogen-Doped Graphitic Carbons as Highly-Selective Catalysts for CO<sub>2</sub> Hydrogenation"</i>
PP 1.077	<b>Erzsebet Illes</b> <i>"Interplay between magnetic properties and colloidal stabilization in bio-ferrofluids"</i>
PP 1.078	<b>Martin Pantov</b> <i>"Cold-bursting and double emulsion formation in mixed triglyceride particles undergoing polymorphic phase transitions"</i>
PP 1.079	<b>Loránd Románszki</b> <i>"AFM-based size statistics of Au nanoparticles generated on amino-terminated TEOS silica surfaces for biosensors"</i>

### Colloidal Dispersions, Colloidal Stability and Surface Forces

PP 1.080	<b>Shikeale Harris</b> <i>"Casein micelles under osmotic stress"</i>
PP 1.081	<b>Yulin Hu</b> <i>"The usefulness of phosphatidylcholine-depleted (PC-depleted) lecithin as low-HLB emulsifier to produce W<sub>1</sub>/O/W<sub>2</sub> double emulsions"</i>
PP 1.082	<b>Thanasis Athanasiou</b> <i>"Probing in-cage particle dynamics in concentrated suspensions and glasses of hard spheres particles with HF rheometry"</i>
PP 1.083	<b>Thomas Palberg</b> <i>"Charging of dielectric surfaces in contact with aqueous electrolyte – the influence of CO<sub>2</sub>"</i>
PP 1.084	<b>Melis Yetkin</b> <i>"Supraparticles: Aggregation of colloids in evaporating dispersion drops"</i>



PP 1.085	<b>Caroline Hadjefstathiou</b> <i>"Surface tension decrease with dispersed lignin colloids and their potential capacity as emulsifiers"</i>
PP 1.086	<b>Emmanouil Vereroudakis</b> <i>"Crystallizing depletion colloidal gels by shear"</i>
PP 1.087	<b>Alexis Darras</b> <i>"Physical mechanism of erythrocytes sedimentation rate"</i>
PP 1.088	<b>Chan Derek</b> <i>"Block Copolymer Nanoparticles are Effective Dispersants for Micrometer-Sized Organic Crystalline Particles"</i>
PP 1.089	<b>Ashley Mungroo</b> <i>"Binary mixture of hard and soft colloids with tuneable interactions"</i>
PP 1.090	<b>Dimitri Radajewski</b> <i>"Microfluidic osmotic compression of charge-stabilized colloidal dispersions: Equations of state and collective diffusion coefficients"</i>
PP 1.091	<b>Saket Kumar</b> <i>"Rheology and structural characterization of mild solvolytically fractionated lignin dispersed in alcohols"</i>
PP 1.092	<b>Dmitrii Sychev</b> <i>"Work of adhesion in soft bodies contact scenario"</i>
PP 1.093	<b>Robert Ondok</b> <i>"Tailoring water resistance properties of environmentally friendly water-based wood adhesive"</i>
PP 1.094	<b>Tamas Oncsik</b> <i>"Designing highly water resistant PVAc wood adhesives using cellulose-based fibrous materials"</i>
PP 1.095	<b>Gabriele D'Oria</b> <i>"Evidence and modelling of physical ageing in fluid gels"</i>
PP 1.096	<b>Gabriele D'Oria</b> <i>"Abrasion phenomenon in low acyl gellan gum fluid gels"</i>
PP 1.097	<b>Valentín García-Caballero</b> <i>"Long-term stability and loading of DPPC-based liposomes"</i>
PP 1.098	<b>Iván Navarro-Arrebola</b> <i>"Properties of interfacial layer in surfactant-laden concentrate titania nanoparticle dispersions"</i>
PP 1.099	<b>Mohammad Arif Kamal</b> <i>"Translational and rotational diffusion coefficients of hematite-silica core-shell colloidal ellipsoids and the effect of polydispersity"</i>
PP 1.100	<b>Laurent Vaughan</b> <i>"Epitaxial Growth of Binary Colloidal Systems"</i>

PP 1.101	<b>Simon Becker</b> <i>"Interparticle forces in presence of polycarboxylate ethers under basic conditions"</i>
PP 1.102	<b>Kevin Graeff</b> <i>"Interactions and Structure of Foam Films stabilized by Proteins and Microgels"</i>
PP 1.103	<b>Rui Cheng</b> <i>"Refractive-index and density matching for a model colloidal system to capture gel collapse"</i>
PP 1.104	<b>Veronika Yavrukova</b> <i>"Rheology of mixed solutions of sulfonated methyl esters and betaine in relation to the growth of giant micelles"</i>
PP 1.105	<b>Mohamad Danial Shafiq</b> <i>"Competitive effect of oil viscosity and interparticle interactions between carbon particles using polymer dispersant"</i>
PP 1.106	<b>Fajun Zhang</b> <i>"Dynamics of melting chocolate studied by X-ray photon correlation spectroscopy (XPCS)"</i>
PP 1.107	<b>Tobias Knapp</b> <i>"Colloidal Stability of Apolar Nanoparticles in Solvent Mixtures and Solutions of Intercalants"</i>
PP 1.108	<b>Simone Amatori</b> <i>"Exploring anisotropic growth of hydrophilic gold nanorods and their self-assembly in view of biotechnological applications"</i>
PP 1.109	<b>Luciene Lima</b> <i>"Effect of alkylphenol ethoxylated non-ionic surfactants free on the colloidal behavior of acrylic dispersions"</i>
PP 1.110	<b>Shalaka Bhargava</b> <i>"Evaporation driven instability in tear film :3D dynamics"</i>
PP 1.111	<b>Ralitsa Uzunova</b> <i>"Kinetics of transfer of volatile amphiphiles from vapors to surfactant solution drops"</i>
PP 1.112	<b>Evangelia Vasilaki</b> <i>"Anisotropic rod-like and spherical particles with temperature driven tunable interactions"</i>
PP 1.113	<b>Xuan Li</b> <i>"Brownian suspension velocity valet simulation"</i>
PP 1.114	<b>Teng Wang</b> <i>"Effect of dilution agents, fat globules and temperature on the size measurement of casein micelles via dynamic light scattering"</i>
PP 1.115	<b>Isabelle Simonsson</b> <i>"Novel investigations on the ion-specific effects on sulfate-functionalized cellulose nanocrystals"</i>
PP 1.116	<b>Minas Stylianakis</b> <i>"The Effect of rGO Addition on the Tribological Performance of a Commercialized Fully Synthetic Engine Oil"</i>

PP 1.117	<b>Paula Araujo Gomes</b> <i>"Microalgae as soft permeable particles"</i>
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Theory and Multi-scale Modeling of Colloids and Interfaces	
PP 1.118	<b>Apolline Faidherbe</b> <i>"Drying of a thin film of complex fluid under an evaporation mask"</i>
PP 1.119	<b>Gunwoo Park</b> <i>"Modeling Ultrafiltration of Interacting Brownian Particles"</i>
PP 1.120	<b>Konstantia Nathanael</b> <i>"Design of experiments to model the size of AgNPs in microfluidic synthesis"</i>
PP 1.121	<b>Konstantia Nathanael</b> <i>"PBM-CFD simulations of microfluidic synthesis of AgNPs"</i>
PP 1.122	<b>Sourov Chandra</b> <i>"Giant third-harmonic generation and quantum coherent effects in ultrasmall Au<sub>6</sub> nanoclusters"</i>
PP 1.123	<b>Vittoria Sposini</b> <i>"Exploring the glassy behaviour of the Gaussian Core Model by random pinning"</i>
PP 1.124	<b>Justinas Šlepavičius</b> <i>"Are Colloidal Trimers Governed by Fickian yet non-Gaussian Dynamics?"</i>
PP 1.125	<b>Justinas Šlepavičius</b> <i>"Predicting Self-Diffusion Coefficients of Mie Spheres Using Machine Learning"</i>
PP 1.126	<b>Matteo Chamchoum</b> <i>"A Computational Model for Interpolyelectrolyte Complexes"</i>
PP 1.127	<b>Yashraj Wani</b> <i>"Self-diffusion and sedimentation of shape-anisotropic colloids"</i>
PP 1.128	<b>Carlo Andrea De Filippo</b> <i>"On the role of polydispersity on the phase diagram of low-density colloidal solutions"</i>
PP 1.129	<b>Margaritis Kostoglou</b> <i>"A Model for Bubble-Particle Collision Frequency in a Turbulent Flow Field"</i>
PP 1.130	<b>Christian Strauch</b> <i>"Ionization Equilibria and Swelling Behaviour of Weak Polyampholyte Core-shell Microgels - A Monte Carlo Study"</i>



PP 1.131	<b>Vagelis Harmandaris</b> <i>"Polymers at Interphases via Simulations Across Scales: from Atoms to Macroscopic Properties"</i>
PP 1.132	<b>Nikolaos Patsalidis</b> <i>"Modelling of Polymer/Alumina Interfaces via Ab-initio Calculations and Machine-learned Molecular Dynamics Simulations"</i>
PP 1.133	<b>Jack Eatson</b> <i>"Capillary assembly of anisotropic particles at cylindrical fluid interfaces"</i>
PP 1.134	<b>Pedro A. Sánchez</b> <i>"Competing dynamics at play: self-assembly of colloidal particles with mobile DNA linkers"</i>
PP 1.135	<b>Anjaiah Nalaparaju</b> <i>"In silico investigation of colloidal particle deposition and surface affinity"</i>
PP 1.136	<b>Roni Kroll</b> <i>"Liquid nucleation around charged particles in the vapor phase"</i>

### Self-Assembly and Supramolecular Structures

PP 1.137	<b>Ronit Bitton</b> <i>"Tuning the properties of multicomponent polysaccharide/peptide self-assembled macroscopic membranes"</i>
PP 1.138	<b>Pawel Szabelski</b> <i>"From wires to fractals: modeling of the metal-organic intermediates in surface-assisted Ullmann coupling of halogenated acenes"</i>
PP 1.139	<b>Shayan Vazirieh Lenjani</b> <i>"The dominant role of electrostatic forces in supracolloidal self-assembly of polymer-functionalized Gold nanorods"</i>
PP 1.140	<b>Gal Yosefi</b> <i>"Growing on membranes: next generation cell culture scaffolds - the role of the polymers"</i>
PP 1.141	<b>Belhssen Hleli</b> <i>"Associative behavior of dodecaborate conjugates with alkyl tails"</i>
PP 1.142	<b>Žiga Medoš</b> <i>"Formation of Metallacarborane Pentamers in Water"</i>
PP 1.143	<b>Hongxiao Xiang</b> <i>"Linking Perylene Diimide to Nanoclays: Solvent-Induced Aggregation and Energy Transfer"</i>
PP 1.144	<b>Rodolfo Esposito</b> <i>"Biosurfactants in green industrial formulations: a study on Rhamnolipid-SLES mixture."</i>
PP 1.145	<b>Lauren Matthews</b> <i>"Elucidation of self-assembly pathways in dilute cationic surfactant solutions using TR-SAXS"</i>

PP 1.146	<b>Giulia Allegri</b> <i>"Specs of pecs"</i>
PP 1.147	<b>Alberto Scacchi</b> <i>"Polymer length dependency of liquid-liquid phase separation and assembly of silk-like proteins"</i>
PP 1.148	<b>Mina Fazilati</b> <i>"Phase transitions in a binary system cetyl alcohol - stearyl alcohol"</i>
PP 1.149	<b>Cassia Lux</b> <i>"From cellulose model surfaces to elastic papers"</i>
PP 1.150	<b>Sichao Li</b> <i>"Tuneable interphase transitions in ionic liquids/carrier systems: voltage control"</i>
PP 1.151	<b>Roland Kádár</b> <i>"How do birefringence patterns relate to shear stress nonlinearities in optically active dispersions?"</i>
PP 1.152	<b>Werner Kunz</b> <i>"A New Generation of Liquid Ionic Surfactants"</i>
PP 1.153	<b>Zlatina Mitrinova</b> <i>"Interplay between cosurfactant and electrolyte for the rheological behavior of mixed surfactant systems"</i>
PP 1.154	<b>Epameinondas Leontidis</b> <i>"Calorimetric measurements of the complexation and transfer of a europium salt in a colloidal liquid-liquid extraction system"</i>
PP 1.155	<b>Ilaria Clemente</b> <i>"Structure, molecular packing and interactions in compartmentalized algal-based nanocarriers: a spectroscopy and calorimetry study"</i>
PP 1.156	<b>Tomas Omasta</b> <i>"Enhanced Solubilization of Fragrances in Solutions of Sugar Surfactants in Natural Deep Eutectic Solvents (NADES)"</i>
PP 1.157	<b>Ellen Brunzell</b> <i>"Aggregation behaviour of therapeutic peptides – A scattering approach"</i>
PP 1.158	<b>Pavel Matejicek</b> <i>"Closododecaborate(2-) as building block for preparation of diverse nanostructures of controlled shape and properties"</i>
PP 1.159	<b>Larissa dos Santos Silva Araújo</b> <i>"Directed assembly of surfactant-cyclodextrin building blocks in solution"</i>
PP 1.160	<b>Ekhlas Homede</b> <i>"Tunable Self-Assembly of Same Size Binary Nanoparticle Mixtures Subjected to Surface Forces in Volatile Suspensions"</i>
PP 1.161	<b>Jan Zawala</b> <i>"Experimental and theoretical study of adsorption of amino acid surfactants at air/water interface"</i>

PP 1.162	<b>Marius Schöttle</b> <i>"Macro- and mesoscopic gradients in self-assembled colloidal systems"</i>
PP 1.163	<b>Svetoslav Anachkov</b> <i>"Salt-response of anionic/zwitterionic mixtures: Rheological scaling rules"</i>
PP 1.164	<b>Chandra Shekhar</b> <i>"Droplet-Bijel-Droplet Transition in Aqueous Two-Phase Systems Stabilized by Oppositely Charged Nanoparticles"</i>
PP 1.165	<b>Irene Russo Krauss</b> <i>"Chemo-enzymatically produced rhamnxylosurfactants as new biosurfactants"</i>
PP 1.166	<b>Jiabao Zheng</b> <i>"Heteroprotein complex coacervation: <math>\beta</math>-conglycinin and lysozyme"</i>
PP 1.167	<b>Lidiya Dimitrova</b> <i>"Effects of salt and fragrances on formulation rheology"</i>
PP 1.168	<b>Pamela Petrova</b> <i>"Rheology of anionic/zwitterionic mixtures: Co-ion effects"</i>
PP 1.169	<b>Konstantinos Karatasos</b> <i>"Effects of the Structure of Lipid-based Agents in their Complexation with a Single Stranded mRNA fragment as studied by Molecular Dynamics Simulations"</i>
PP 1.170	<b>Robert F. Schmidt</b> <i>"Phase behaviour of a biocompatible microemulsion based on tween 20, ethylhexylglycerin and isopropyl palmitate"</i>
PP 1.171	<b>Qing Gao</b> <i>"Complexation between starch and single/binary aroma compounds: Formation and structure"</i>
PP 1.172	<b>Ruslan Kashapov</b> <i>"Amphiphilic Calix[4]resorcinol-based Nanoparticles: Synthesis, Self-assembly and Biological Properties"</i>
PP 1.173	<b>Ruslan Kashapov</b> <i>"Supramolecular Self-Assembly of Metallosurfactant and Porphyrin as a Drug Nanocontainer Design"</i>
PP 1.174	<b>Nadezda Kashapova</b> <i>"Tuning of Nanoparticles Based on Amphiphilic Calix[4]resorcinol and Octenidine for Enhanced Anticancer Activity and Selectivity"</i>
PP 1.175	<b>Irina Portnaya</b> <i>"Application of Isothermal Titration Calorimetry for Studying Drugs Encapsulation in Beta-casein Micelles"</i>
PP 1.176	<b>Hisham Idriss</b> <i>"Electronic surfactants for use in soap film-based sensors and devices"</i>



PP 1.177	<b>Clémence Le Cœur</b> <i>"From planar lamellar phases to multilamellar tubes to micelles: how a simple OH group can tune the structure of stearic acid based mixed systems"</i>
PP 1.178	<b>Zahra Peimanifard</b> <i>"Icosahedral supraparticles from titania-silica core-shell colloids"</i>
PP 1.179	<b>Eleni Pavlopoulou</b> <i>"The Micellization of Well-defined Single Graft Copolymers in Block Copolymer/Homopolymer Blends"</i>
PP 1.180	<b>Pooja Sahu</b> <i>"Self-assembly of asymmetric poly(styrene)-block-poly(methacrylic acid) polyelectrolyte-Neutral diblock copolymer in aqueous solution: A MD simulation study"</i>
PP 1.181	<b>Juan J. Giner-Casares</b> <i>"Interfacial Supramolecular Assembly at Air/Liquid Interfaces"</i>
PP 1.182	<b>Jose Merin</b> <i>"Evaporative self-assembly of soft colloidal monolayers: The role of particle softness"</i>
PP 1.183	<b>Daniel Morris</b> <i>"How crucial is structure? Understanding the role of dynamics and organization for ionic liquid solvent effects on an SN2 process"</i>
PP 1.184	<b>Viara Yordanova</b> <i>"Rheology of surfactant solutions: Effect of the counterion and surfactants head groups"</i>

### Colloidal Systems in External Fields

PP 1.185	<b>Sriram Krishnamurthy</b> <i>"Kinetics of aggregation of amyloid <math>\beta</math> under different shearing conditions: Experimental and modelling analyses"</i>
PP 1.186	<b>Carlo Rigoni</b> <i>"Electroferrofluids with non equilibrium voltage-controlled magnetism, diffuse interfaces and patterns"</i>
PP 1.187	<b>Marcel Herber</b> <i>"Bubble printing of MXenes for patterning conductive and plasmonic nanostructures"</i>
PP 1.188	<b>Silvia Ahualli</b> <i>"Electrokinetic and dielectric response of a concentrated salt-free colloid. Different approaches to counterion finite size effects"</i>
PP 1.189	<b>Anjali Sharma</b> <i>"Generation of local diffusioosmotic flow by light responsive microgels"</i>
PP 1.190	<b>Kazuya Okada</b> <i>"Aggregation phenomena of magnetic cubic particles in an alternating magnetic field (Brownian dynamics simulations)"</i>

PP 1.191	<b>Emmanouil Mathioudakis</b> <i>"A rheo-confocal study of the rheological and structural properties of magnetorheological fluids"</i>
PP 1.192	<b>Rogier Delporte</b> <i>"Analysing electrophoretic deposition using transient current measurements"</i>
PP 1.193	<b>Jérôme J. Crassous</b> <i>"State diagram of soft dipolar ellipsoids"</i>
PP 1.194	<b>Smaragda-Maria Argyri</b> <i>"NMR-Lev: A tool for contactless NMR spectroscopy"</i>
PP 1.195	<b>Frances Brown</b> <i>"Comparison of the frictional properties of plant and dairy proteins"</i>
PP 1.196	<b>Pavlik Lettinga</b> <i>"The inhomogeneous rheological response of nematic platelets studied by spatial resolved Rheo-SAXS and XPCS"</i>
PP 1.197	<b>Lea Fischer</b> <i>"Rheological investigations of thermoresponsive core-shell nanoparticles in suspension at the colloidal glass transition"</i>
PP 1.198	<b>Romain Bordes</b> <i>"Design and optimization of single-node single axis levitators for contactless experiments in air"</i>
PP 1.199	<b>Akira Satoh</b> <i>"Regime change in the aggregate structure of magnetic cubic particles in a quasi-2D suspension system (multi-particle collision dynamics simulations)"</i>
PP 1.200	<b>Norma Palmero-Cruz Caridad</b> <i>"Hydrodynamic correlations of trapped particles in optical tweezers"</i>

*Plenary Lectures and Keynote Speakers for Tuesday 6<sup>th</sup> of September***Plenary Lecture**

**Lorna Dougan** (University of Leeds, UK) is full Professor of Physics in the School of Physics and Astronomy at the University of Leeds. She obtained a MPhys and Ph. D in Physics at the University of Edinburgh and trained as a postdoctoral fellow at Columbia University in New York, USA. In 2009 she established her group at Leeds, where she is a member of the Bragg Centre for Materials Research and Astbury Centre for Structural Molecular Biology. Dougan's group focuses on understanding the physics of life and developing novel materials inspired by biomolecules. She combines experimental and modelling approaches to achieve a cross length scale understanding of structure and mechanics, and in particular the translation of mechanical properties across scales. This includes protein engineering, single molecule force spectroscopy, rheology and neutron and x-ray scattering. Her group works in collaboration with biological and biomedical scientists to understand the physics of living systems and to develop materials for biomedical applications. She has received various distinction, including ERC Starting Grant (2011), Medical Research Council & Royal Society Suffrage Science Award (2015), British Biophysical Society Young Investigator Medal (2018), British Biophysical Society Elspeth Garman Prize for Public Engagement (2022) and ERC Consolidator /UKRI Frontier Research Fellowship (2022). <https://dougan.leeds.ac.uk/>

**Keynote Speakers**

K.N. 1.1 Cecile Monteux | ESPCI Paris, France

K.N. 1.2 Rosanna Pasquino | University of Naples, Italy

K.N. 1.3 Ahmet Demiroers | ETH Zürich, Switzerland

K.N. 1.4 Eva Noya | CSIC, Spain

K.N. 2.1 Emanuel Schneck | TU Darmstadt, Germany

K.N. 2.2 Holger Frey | Johannes Gutenberg University of Mainz, Germany

K.N. 2.3 Roberto Piazza | Politecnico di Milano, Italy

K.N. 2.4 Joachim Dzubiella | University of Freiburg, Germany



Tuesday, 6<sup>th</sup> September 2022

08:30-09:15	<b>Imperial Hall Room 1 (Hybrid)</b>			
	<b>Plenary Talk</b> <b>Lorna Dougan</b> , University of Leeds <i>"Multiscale Mechanics of Protein Networks"</i> <b>Chair: Elena Mileva</b> , Bulgarian Academy of Sciences			
09:15-09:45	<b>Coffee Break</b>			
09:45-11:55	<b>Imperial Hall Room 1 (Hybrid)</b>	<b>Imperial Hall Room 2</b>	<b>Imperial Hall Room 3</b>	<b>Imperial Hall Room 4</b>
	<b>Colloids at Interfaces, Membranes and Biointerfaces, Emulsions and Foams</b>	<b>Polymers, Polyelectrolytes, Gels and Liquid Crystals</b>	<b>Colloidal Systems in External Fields</b>	<b>Theory and Multi-scale Modeling of Colloids and Interfaces</b>
	<b>Chair</b> <b>Regine von Klitzing</b> , TU Darmstadt	<b>Chair</b> <b>Michael Gradzielski</b> , TU Berlin	<b>Chair</b> <b>Marco Laurati</b> , University of Florence	<b>Chair</b> <b>Gerhard Naegele</b> , Forschungszentrum Juelich
09:45	<b>KN 1.1: Cecile Monteux</b> , ESPCI CNRS <i>"Leaching foams"</i>	<b>KN 1.2: Rossana Pasquino</b> , DICMAPI, UNINA <i>"On the inverse quenching technique applied to gelatin solutions"</i>	<b>KN 1.3: Ahmet Demiroers</b> , ETH Zurich <i>"External fields for assembly and manipulation at micro and macro-scales"</i>	<b>KN 1.4: Eva Noya</b> , Consejo Superior de Investigaciones Cientificas <i>"Icosahedral quasi-crystals made of patchy colloids"</i>
10:15	<b>OP: Olivier Diat</b> , Marcoule Institute for Separation Chemistry <i>"Stabilization of non-ionic foam with nano-ions"</i>	<b>OP: Vincenzo Ruzzi</b> , Politecnico di Milano <i>"Phase behavior, microscopic dynamics and microrheological properties of a thermosensitive gel-forming polymer"</i>	<b>OP: Carlo Rigoni</b> , AALTO University <i>"Ferrofluidic aqueous two-phase system with ultralow interfacial tension and micro-pattern formation"</i>	<b>OP: Alvaro Dominguez</b> , Univ. Sevilla <i>"Colloidal monolayers: bridging the gap between two and three spatial dimensions"</i>
10:35	<b>OP: Laurence Talini</b> CNRS - SVI <i>"Mechanisms responsible for the longer lifetimes of bubbles and foams in binary liquid mixtures"</i>	<b>OP: Thomas Hellweg</b> Bielefeld University <i>"Responsive polyacrylamide-based core-shell microgels"</i>	<b>OP: Luigi Gentile</b> University of Bari <i>"Out-of-equilibrium multi-lamellar vesicles induced by shear flow"</i>	<b>OP: Remco Tuinier</b> , TU Eindhoven <i>"Does the Gibbs phase rule apply to the phase behaviour of colloid-polymer mixtures?"</i>
10:55	<b>OP: Boubakar Sanogo</b> , Université Clermont Auvergne <i>"Surface-active agent's impact on bubble break-up: from single bubble to process-scale liquid foam"</i>	<b>OP: Hamed Almohammadi</b> , ETH Zurich <i>"Shape and structural relaxation of colloidal liquid crystalline tactoids"</i>	<b>OP: Yannick Hallez</b> , LGC – University of Toulouse <i>"Shear-induced glass-to-crystal transition in anisotropic clay-like suspensions"</i>	<b>OP: Maisa Vuorte</b> , AALTO University <i>"Modelling colloidal adsorption in bio-oils: effect of molecular chemistry, surface geometry and hydration"</i>
11:15	<b>OP: Tetiana Mukhina</b> , TU Darmstadt <i>"Phase behavior and miscibility in lipid monolayers containing glycolipids"</i>	<b>OP: Daria Noferini</b> , European Spallation Source Eric <i>"Hydrogen dynamics in PHEMA hydrogels - How neutron spectroscopy can help in preserving precious artefacts and designing new drug delivery systems"</i>	<b>OP: Fabio Giavazzi</b> , University of Milan <i>"The yielding transition in soft amorphous solids under oscillatory shear: From microscopic rearrangements to macroscopic failure"</i>	<b>OP: Erin Koos</b> , KU Leuven <i>"Yielding of capillary suspensions"</i>

11:35	<b>OP: Larissa Braun,</b> Technische Universität Darmstadt <i>"Why do polyelectrolyte / surfactant mixtures form extended structures at the air / water interface?"</i>	<b>OP: Rajam Elanchelian,</b> Laboratoire Charles Coulomb <i>"The importance of charges in the volume phase transition of PNIPAm microgels"</i>	<b>OP: Abraham Mauleon-Amieva,</b> University of Bristol <i>"Yielding in amorphous solids: an interparticle force determination"</i>	<b>OP: Rita Dias,</b> Norw. Univ. Science Technology <i>"Polyelectrolyte-nanoparticle mutual charge regulation and its influence on their complexation"</i>
11:55-14:20	<b>Lunch Break</b> <i>Minoa Palace Main Restaurant</i>			
14:20-16:30	<b>Imperial Hall Room 1 (Hybrid)</b>	<b>Imperial Hall Room 2</b>	<b>Imperial Hall Room 3</b>	<b>Imperial Hall Room 4</b>
	<b>Colloids at Interfaces, Membranes and Biointerfaces, Emulsions and Foams</b>	<b>Polymers, Polyelectrolytes, Gels and Liquid Crystals</b>	<b>Colloidal systems in External Fields</b>	<b>Theory and Multi-scale Modeling of Colloids and Interfaces</b>
	<b>Chair</b> <b>Zahari Vinarov,</b> Sofia University	<b>Chair</b> <b>Karin Schillen</b> Lund University	<b>Chair</b> <b>Roberto Cerbino,</b> University of Vienna	<b>Chair</b> <b>Primoz Zihrel,</b> University of Ljubljana
14:20	<b>KN 2.1: Emanuel Schneck,</b> TU Darmstadt <i>"Investigating biomembrane models at fluid interfaces - from bacteria surfaces to glycolipid domains to RNA delivery"</i>	<b>KN 2.2: Holger Frey,</b> Johannes Gutenberg University Mainz <i>"Watching" the formation of multiblock copolymers with up to 10 blocks: sequences, morphology, mechanical properties"</i>	<b>KN 2.3: Roberto Piazza,</b> Politecnico di Milano <i>"Two-step nucleation in optothermally-driven 2D crystallization"</i>	<b>KN 2.4: Joachim Dzubiella,</b> Univ. Freiburg <i>"Multi-scale modeling of rates and transport of colloidal nanoreactors"</i>
14:50	<b>OP: Hannah Boyd,</b> Malmö University <i>"MUC5B mucin films under mechanical confinement: A combined neutron reflectometry and atomic force microscopy study"</i>	<b>OP: Michael Gradzielski,</b> TU Berlin <i>"Self-Assembly of thermo-responsive BAB copolymers and their functioning as rheological modifiers"</i>	<b>OP: Erick Sarmiento-Gomez,</b> University of Guanajuato <i>"Dynamical regimes and stochastic transitions of colloids in periodic light fields"</i>	<b>OP: Thomas Zemb,</b> Marcoule Institute for Separation Chemistry <i>"An explicit multi-scale evaluation of the Gibbs energy of transfer of electrolytes in liquid-liquid extraction"</i>
15:10	<b>OP: Marco Fornasier,</b> Lund University <i>"Probing alpha-synuclein interactions with lipid membranes via fluorescence techniques"</i>	<b>OP: Lisa Tran,</b> Utrecht University <i>"Helfrich-Hurault-like undulations in cholesteric liquid crystals induced by anchoring transitions"</i>	<b>OP: Iman Abdoli,</b> Leibniz Institute of Polymer Research <i>"Odd-Diffusive Systems"</i>	<b>OP: Jean-Francois Dufrêche,</b> ICSM Univ. Montpellier <i>"Multiscale modeling of the adsorption of pheromone molecules at the water-air interface"</i>
15:30	<b>OP: Gergana Georgieva,</b> Sofia University <i>"Biocidal action of Ag and soap against staphylococcus aureus"</i>	<b>OP: Pierre Bauduin,</b> CEA <i>"Polymeric surfactant P84/polyoxometalate <math>\alpha</math>-PW12O403- A model system to investigate the interplay between chaotropic and hydrophobic effects"</i>	<b>OP: Vincent Niggel,</b> ETH Zürich <i>"Measuring 3D rotation of colloidal particles from 2D images"</i>	<b>OP: Raffaele Pastore,</b> University of Naples Federico II <i>"Fickian non-Gaussian diffusion in the presence of static and dynamic heterogeneity"</i>

15:50	<b>OP: Marie Pierre Krafft,</b> University of Strasbourg <i>"Perfluorocarbon nanoemulsions activatable in microbubbles for biomedical imaging: methods of preparation and characterization"</i>	<b>OP: Pavlik Lettinga,</b> FZ Jülich <i>"Uncovering log jamming in semidilute suspensions of quasi-ideal rods"</i>	<b>OP: Maria L. Jimenez,</b> University of Granada <i>"Anomalous rotational diffusion of non-spherical particles in viscoelastic fluids"</i>	<b>OP: Tom Höfken,</b> RWTH Aachen University <i>"Changes in the form factor and size distribution of nanogels in crowded environments"</i>
16:10	<b>OP: Noémie Coudon,</b> Centre de recherche Paul Pascal <i>"Stabilization of water-in-water emulsions with fatty acid bilayers"</i>	<b>OP: Kostas Daoulas,</b> Max Planck Institute for Polymer Research <i>"Mesoscopic modeling of highly-ordered polymer nanodisks and comparison with scattering data"</i>	<b>OP: Guillermo Iglesias Salto,</b> University of Granada <i>"Magnetic gold nanoparticles under double external stimulus: magnetic field and laser irradiation"</i>	<b>OP: Terpsichori Alexiou,</b> University of Vienna <i>"Bottom-up coarse grained modeling of DNA minicircles"</i>
16:30-17:00	<b>Coffee Break</b>			
17:00-19:00	<b>Imperial Hall Room 1 (Hybrid)</b>	<b>Imperial Hall Room 2</b>	<b>Imperial Hall Room 3</b>	<b>Imperial Hall Room 4</b>
	<b>Colloids at Interfaces, Membranes and Biointerfaces, Emulsions and Foams</b>	<b>Polymers, Polyelectrolytes, Gels and Liquid Crystals</b>	<b>Colloidal systems in External Fields</b>	<b>Theory and Multi-scale Modeling of Colloids and Interfaces</b>
	<b>Chair Anne-Laure Fameau,</b> INRAE	<b>Chair Kostas Daoulas,</b> Max Planck Institute for Polymer Research	<b>Chair Ramón Castañeda Priego,</b> University of Guanajuato	<b>Chair Eva Noya,</b> Consejo Superior de Investigaciones
17:00	<b>OP: Alexandros Koutsoumpas</b> Forschungszentrum Jülich <i>"A closer look at the softening of phospholipid membranes by the adhesion of silica nanoparticles"</i>	<b>OP: Manos Anyfantakis,</b> University of Luxembourg <i>"Green synthesis of thin poly(cyanoacrylate) films: patterned coatings, liquid packaging, and gas encapsulation"</i>	<b>OP: Matteo Milani,</b> CNRS-L2C <i>"Drying drop of colloidal suspension"</i>	<b>OP: Gerhard Naegele,</b> Forschungszentrum Jülich <i>"Clustering and dynamics in quasi-two-dimensional dispersions of proteins with competing interactions"</i>
17:20	<b>OP: Elena Mileva,</b> Bulgarian Academy of Sciences <i>"Nanostructured Materials and Coatings Based on Synthetic Four-Antennary Peptides"</i>	<b>OP: Edwin Johnson,</b> University of Sheffield <i>"Dumbbell' polymer brushes: understanding the origins of non-monotonic structures"</i>	<b>OP: Jérôme J. Crassous,</b> RWTH-Aachen University <i>"Drying of responsive microgels"</i>	<b>OP: Julian Gerhäuser,</b> Karlsruhe Institute of Technology <i>"Analysis of the ice surface structure after binding of an antifreeze protein and its correlation with the Gibbs-Thomson equation"</i>
17:40	<b>OP: Ivan Lesov,</b> Sofia University <i>"Flow reactor for the preparation of lipid nanoemulsions and nanosuspensions via temperature variations"</i>	<b>OP: Irene Adroher-Benitez,</b> UGA-CNRS <i>"Modeling adsorption and stability of polymer coatings on heterogeneous surfaces"</i>	<b>OP: Dominik Horinek,</b> University of Regensburg <i>"Two types of liquid-liquid phase separation induced by centrifugation"</i>	<b>OP: Sonya Tsibranska-Gyoreva,</b> Sofia University <i>"Monitoring freezing at surfactant-stabilized hexadecane/water interface by molecular dynamics"</i>



18:00	<b>OP: Saul Hunter,</b> University of Sheffield <i>"Long-term stability of Pickering nanoemulsions prepared using diblock copolymer nanoparticles: effect of nanoparticle core crosslinking, oil type and the role played by excess copolymer"</i>	<b>OP: Rui A. Gonçalves,</b> Nanyang Technological University <i>"Facile control of surfactant packing and adsorption behavior"</i>	<b>OP: Nicolas Moreno Gomez,</b> Max Planck Institute for Intelligent Systems <i>"Tunable payload release from antibubbles using low intensity ultrasound"</i>	<b>OP: Ivan Palaia,</b> Institute of Science and Technology Austria <i>"Like-charge attraction at the nanoscale: ground-state correlations and water destructuring"</i>
18:20	<b>OP: Dilek Gazolu-Rusanova,</b> Sofia University <i>"Essential oil micro- and nano-emulsions formation, assisted by food grade preservatives"</i>	<b>OP: Miroslav Štěpánek,</b> Charles University <i>"Structure of a comb copolymer-surfactant coacervate elucidated by DOSY NMR and neutron spin echo spectroscopy measurements"</i>	<b>OP: Romain Bordes,</b> Chalmers University of Technology <i>"Contactless measurement of surface tension on single droplet using acoustic levitation and machine learning"</i>	<b>OP: Joao Maia,</b> Case Western Reserve University <i>"Confinement vs rigidity and its influence on the structure development of semi-dense and dense suspensions"</i>
18:40	<b>OP: Felix Plamper,</b> TU Berg Akademie Freiberg <i>"Adjustable viscoelasticity of gelled liquid-liquid interfaces caused by interfacial transformations of block copolymer micelles"</i>	<b>OP: Asia Matatyaho Ya'akobi,</b> Technion-Israel Institute of Technology <i>"Electron Microscopy Study of Boron Nitride Nanotubes Processed into Macroscopic Fibers"</i>	<b>OP: Christopher Klein,</b> KIT Polymeric Materials <i>"Non-linear rheology and rheo-combined methods applied on colloidal systems"</i>	<b>OP: Primož Zihel,</b> University of Ljubljana <i>"Bronze-mean hexagonal quasi-crystals"</i>

19:00-20:30	<b>Poster Session 2</b> <i>Athina Hall (Hotel Main Building)</i>			
<b>Wetting Phenomena, Responsive Colloids and Surfaces</b>				
PP 2.001	<b>Jens Allard</b> <i>"Yielding of mono- and bidisperse capillary suspensions"</i>			
PP 2.002	<b>Alexander Tesler</b> <i>"Non-toxic liquid-infused slippery coating prepared by a one-pot process prevents corrosion and marine biofouling adhesion"</i>			
PP 2.003	<b>Hinduja Chirag</b> <i>"Scanning drop adhesion force instrument (sDAFI)"</i>			
PP 2.004	<b>Xiaoteng Zhou</b> <i>"Fabrication of Stretchable Superamphiphobic Surfaces with Deformation-Induced Rearrangeable Structures"</i>			
PP 2.005	<b>Sushmitha Vinikumar</b> <i>"Wetting dynamics on intrinsically charged lithium niobate surfaces"</i>			
PP 2.006	<b>Yifan Li</b> <i>"Surface Acoustic Wave Mitigation of Precipitate Deposition on a Solid Surface—An Active Self-Cleaning Strategy"</i>			
PP 2.007	<b>Xiaomei Li</b> <i>"Adaptation and Recovery of a Styrene-Acrylic Acid Copolymer Surface to Water"</i>			

PP 2.008	<b>Amin Rahimzadeh</b> <i>"Effects of Microgel Stiffness on Droplet Bouncing"</i>
PP 2.009	<b>Diego Díaz</b> <i>"Charging of drops impacting onto superhydrophobic surfaces"</i>
PP 2.010	<b>Andriani Tsompou</b> <i>"Washing cycle and temperature effect on cleaning hydrophilic surfaces with purified water grades"</i>
PP 2.011	<b>Prexa Shah</b> <i>"Hierarchical superhydrophobic composite membrane for enhanced distillation with excellent fouling resistance"</i>
PP 2.012	<b>Nikolai Kubochkin</b> <i>"Rivulets in soft and rigid nanowedges"</i>
PP 2.013	<b>Frank D. Bradley</b> <i>"Reversible chemotaxis of dynamically reconfigurable emulsion droplets"</i>
PP 2.014	<b>Franceska Gojda</b> <i>"Development of Functional Materials Surfaces"</i>
PP 2.015	<b>Maria Kaliva</b> <i>"pH-Responsive Polyesters with Alkene and Carboxylic Acid Side Groups for Tissue Engineering Applications"</i>
PP 2.016	<b>Simon Schog</b> <i>"Mechanical Properties of Microgels in Dense Monolayers"</i>

### Active and Bioinspired Colloidal Systems

PP 2.017	<b>Prajitha Mottammal</b> <i>"Torus, helical and circular trajectories generated by hydrodynamically coupled microswimmers"</i>
PP 2.018	<b>Maria Tsakiri</b> <i>"Physicochemical evaluation of genistein-loaded biomimetic lipid nanosystems."</i>
PP 2.019	<b>Ewelina Waglewska</b> <i>"Development of bile salt-origin vesicles for the encapsulation of poorly soluble sea-buckthorn pulp oil"</i>
PP 2.020	<b>Lorenzo Caprini</b> <i>"Spatial velocity order in systems of self-propelled disks"</i>
PP 2.021	<b>Hannah Jonas</b> <i>"Viscoelastic patchy particle architectures as models for living matter"</i>
PP 2.022	<b>Nelmary Roas</b> <i>"Adhesive properties of silk-mussel foot coacervates"</i>




PP 2.023	<b>Jordi Esquena</b> <i>"Water-in-water emulsions in presence of ssDNA, as synthetic models of membraneless organelles"</i>
PP 2.024	<b>Luigi Paduano</b> <i>"Extracellular polysaccharides: the origin of their distinctive physicochemical properties"</i>
PP 2.025	<b>Holly Stockdale</b> <i>"Mussel-Inspired Sticky Surfactants and Polymers for Robust Boundary Layers"</i>
PP 2.026	<b>Miriam Simon</b> <i>"A cryo-TEM study of the complexation of DOTAP liposomes with different polyelectrolytes"</i>
PP 2.027	<b>Isabel K. Sommerfeld</b> <i>"Mucus-inspired self-regenerating microgel coatings"</i>
PP 2.028	<b>Rodolfo Esposito</b> <i>"Structure and dynamics of bioinspired complex mixtures: a sustainable approach to green formulation chemistry"</i>
PP 2.029	<b>Alvaro Domínguez</b> <i>"Beyond classic phoresis: new insights into self-phoresis"</i>
PP 2.030	<b>Maximilian Bailey</b> <i>"Modular, Multifunctional Microswimmers from Toposelective Nanoparticle Attachment"</i>
PP 2.031	<b>Meike Bos</b> <i>"Sticky Goblet Cells and Fluctuating Flows induce Preferred Mucus-Strand Orientations for Airway Clearance"</i>
PP 2.032	<b>Meike Bos</b> <i>"Connecting Microstructural Fluctuations and Enhanced Rotational Dynamics of Active Probes in Rod Suspensions"</i>
PP 2.033	<b>Lijie Li</b> <i>"Preparation of Natural Polyelectrolytes Complex Membranes through Sustainable Aqueous Phase Separation"</i>

### Colloids at Interfaces, Membranes and Bionterfaces, Emulsions and Foams

PP 2.034	<b>Thomas Hellweg</b> <i>"Interaction of Saponins with Different Lipid Membranes"</i>
PP 2.035	<b>Yu-Fan Lee</b> <i>"mAb-surfactant stability and rheology at the air-water interface under controlled dilation and shear deformations"</i>
PP 2.036	<b>Jérôme J. Crassous</b> <i>"Buckling and interfacial deformation of fluorescent poly(N-Isopropylacrylamide) microgel capsules"</i>
PP 2.037	<b>Pascal Panizza</b> <i>"Emulsion destruction with chemical additives: from characterization with bottle tests to modeling"</i>



PP 2.038	<b>Xueying Guo</b> <i>"Mimetic bacterial membranes challenged by multivalent cations and antimicrobial peptides: Nanostructural insights"</i>
PP 2.039	<b>Francesca Ravera</b> <i>"Microgravity Study of Emulsions Destabilisation by Diffusing Wave Spectroscopy within the EDDI Project"</i>
PP 2.040	<b>Boris Noskov</b> <i>"Properties of Protein Mcrogel Layers at Liquid Surface"</i>
PP 2.041	<b>Roi Bar-On</b> <i>"Theory for Heterogeneous Water/Oil Separation"</i>
PP 2.042	<b>Déborah Feller</b> <i>"Non-close packed Bravais lattices via self-assembly of core-shell microgels"</i>
PP 2.043	<b>Chunxia Su</b> <i>"Sequential adsorption of polyglycerol polyricinoleate and protein at the oil-water interface: An interfacial rheology study"</i>
PP 2.044	<b>Michel Grisel</b> <i>"Stabilization of oil-in-water emulsions by amphiphilic xanthan synthesized under green conditions"</i>
PP 2.045	<b>Suzanne Calhoun</b> <i>"Miscible antifoams: Leveraging evaporative solutocapillary flows for a novel antifoam mechanism"</i>
PP 2.046	<b>Miriam Grava</b> <i>"pH-dependent charge and structural properties of transfection lipid layers for RNA delivery"</i>
PP 2.047	<b>Margarethe Dahl</b> <i>"Confinement Effects on the Structure of Bicontinuous Microemulsions inside Porous Materials"</i>
PP 2.048	<b>Magdalena Wlodek</b> <i>"Membrane fusion mediated by hydrophobic nanoparticles"</i>
PP 2.049	<b>Saul Hunter</b> <i>"Effect of salt on the formation and stability of water-in-oil Pickering nanoemulsions stabilized by diblock copolymer nanoparticles"</i>
PP 2.050	<b>Anshu Thapa</b> <i>"Building stable structures of ethanol-water droplets at the oil-water interface"</i>
PP 2.051	<b>Poornima Budime Santhosh</b> <i>"Thermal and structural analysis of zwitterionic SOPC lipid membranes entrapped with gold nanoparticles"</i>
PP 2.052	<b>Angeliki P. Chondrou</b> <i>"Effect of oscillating piston characteristics on small volume emulsion generation"</i>
PP 2.053	<b>Mattéo Clerget</b> <i>"Destabilization of a microfluidic air thread through Marangoni effects"</i>

PP 2.054	<b>Margaritis Kostoglou</b> <i>"Study of the stability of gas/liquid interfaces in liquid bridges using an electrical conductance method"</i>	
PP 2.055	<b>Agata Pomorska</b> <i>"Adsorption mechanism and stability of polyelectrolyte multilayers containing GTMAC modified chitosan"</i>	
PP 2.056	<b>Marco Vaccari</b> <i>"Solid foams from photocatalytic nanoparticles for luminous air purification"</i>	
PP 2.057	<b>Ognyan Petkov</b> <i>"Biomimetic membranes interacting with pro-apoptotic peptides"</i>	
PP 2.058	<b>Thodoris Karapantsios</b> <i>"Interfacial shear viscosity and surface tension measurements of anionic–nonionic surfactant binary mixtures, used as minerals flotation reagents"</i>	
PP 2.059	<b>Meyer Thomas Alting</b> <i>"Multifunctional TiO2 nanoparticles as stabilizing agents for and catalytically active phases in bijels"</i>	
PP 2.060	<b>Manon L'Estimé</b> <i>"Droplet size distribution in emulsions"</i>	
PP 2.061	<b>Jean-François Dufrière</b> <i>"Molecular dynamics simulations of droplet coalescence"</i>	
PP 2.062	<b>Ben Humphreys</b> <i>"Following the lipolysis of a thin triolein film"</i>	
PP 2.063	<b>Francesca Ravera</b> <i>"Microgravity Study of Emulsions Destabilisation by Diffusing Wave Spectroscopy within the EDDI Project"</i>	
PP 2.064	<b>Martin Désirée</b> <i>"At interfaces absorbed microgel particles stabilize emulsions as a function of pH and microgel particle concentration"</i>	
PP 2.065	<b>Angeliki P. Chondrou</b> <i>"Design of an experimental device, qualified for parabolic flights, for the dynamic behaviour and stability study of emulsions"</i>	
PP 2.066	<b>Michael Hardt</b> <i>"Photoisomerization of Arylazopyrazole Surfactants Drives Property Changes of Polyelectrolyte/Surfactant Mixtures"</i>	
PP 2.067	<b>Benjamin T. Lobel</b> <i>"Anisotropic emulsions as a template for non-spherical microcapsules"</i>	
PP 2.068	<b>Michael Hardt</b> <i>"Role of Alkyl Tails on the Structure and Photoswitching Ability of Arylazopyrazole Sulfonate Surfactants at Air-Water Interfaces"</i>	

PP 2.069	<b>Glenn Coope</b> <i>"The structure and dynamic composition of lipid reservoirs mediated by lung surfactant protein-B at low surface tension"</i>
PP 2.070	<b>Ivan Palaia</b> <i>"Durotaxis of Passive Nanoparticles on Elastic Membranes"</i>
PP 2.071	<b>Antonia Mallardi</b> <i>"Interaction of Ssurfactants with phospholipidic vesicles: mechanism of membrane disruption"</i>
PP 2.072	<b>Alice Requier</b> <i>"Foam coarsening in a viscoelastic medium"</i>
PP 2.073	<b>Lukas Bange</b> <i>"Small-Angle and Inelastic Neutron Scattering from Polydisperse Oligolamellar Vesicles Containing Glycolipids"</i>
PP 2.074	<b>Anwesha Sarkar</b> <i>"Double Pickering stabilization" of water-in-oil (W/O) emulsions using biocompatible particles"</i>
PP 2.075	<b>Oliver Walker</b> <i>"Towards rapid prototyping of graded macroporous polymer foams"</i>
PP 2.076	<b>Clément Goubault</b> <i>"pH-responsive emulsions from self-assembled amphiphilic bottlebrush copolymers"</i>
PP 2.077	<b>Nikol Labecka</b> <i>"Self-assembly of phospholipid systems at drying interfaces"</i>
PP 2.078	<b>Elisa S. Ferreira</b> <i>"Lightweight wood materials templated by wet foams"</i>
PP 2.079	<b>Vladimír Mareček</b> <i>"Mechanism of spontaneous emulsification at surfactantless liquid/liquid interfaces"</i>
PP 2.080	<b>Nihal Aydogan</b> <i>"Investigation of the Biophysical Interaction of Gold Nanoparticles of Different Geometries with Model Cell Membranes"</i>
PP 2.081	<b>Dilek Gazolu-Rusanova</b> <i>"Effect of phytosterols on the rheological properties of emulsions stabilized with saponins"</i>
PP 2.082	<b>Aleksandra Szcześ</b> <i>"The interactions of trace amounts of ionic surfactants with saturated/unsaturated PC lipid model membranes"</i>
PP 2.083	<b>Kevin Roger</b> <i>"Macro and nanoemulsions stabilized by phospholipids"</i>
PP 2.084	<b>Michèle Fanwa Nzokou</b> <i>"Investigating the ability of an hydrocolloid extracted from Triumfetta cordifolia to emulsify and stabilise emulsions"</i>



PP 2.085	<b>Danijela Bakarić</b> <i>"UV/Vis Spectroscopy in Distinction of Lipid Bilayers Structural Features"</i>	
PP 2.086	<b>Zhiwei Huang</b> <i>"Two-Dimensional Triblock Peptide Assemblies for the Stabilization of Pickering Emulsions with pH Responsiveness"</i>	
PP 2.087	<b>Zhanar Ospanova</b> <i>"Preparation and properties of keratin foamer"</i>	
PP 2.088	<b>Laura Mortara</b> <i>"Quantifying the Bromide vs. Chloride Adsorption at Cationic Surfactant Interfaces"</i>	
PP 2.089	<b>Zeynep Culfaz-Emecen</b> <i>"Removal of perfluorinated alkyl substances (PFAS) from water using nanofiltration, foam fractionation and photochemical degradation"</i>	
PP 2.090	<b>Eleftheria Diamanti</b> <i>"Intraparticle Kinetics Unveil Crowding and Enzyme Distribution Effects on functionality of Cofactor-Dependent Heterogeneous Biocatalysts"</i>	
PP 2.091	<b>Evamaria Hoffman</b> <i>"Solvent Modification in (Photo-)Catalysis Regarding Structuring and Solubilization Power"</i>	

### Colloids in Biomaterials and Biomedical Applications

PP 2.092	<b>Claudia Marconi</b> <i>"Innovative antimicrobials from facial steroidal surfactants"</i>	
PP 2.093	<b>Yixuan Yan</b> <i>"Self-assembled mesostructure in an aqueous dispersion of the drug propranolol hydrochloride: a multi-scale approach combining experiment and simulation"</i>	
PP 2.094	<b>María Martínez-Negro</b> <i>"Poly(ethylene glycol) as surfactant reduces conformational change of adsorbed proteins on nanoparticles."</i>	
PP 2.095	<b>Michalina Zaborowska</b> <i>"Inhibition effect of statins on HMG-CoA reductase reconstituted in model lipid rafts"</i>	
PP 2.096	<b>Marek Kindermann</b> <i>"Topical siRNA therapy for diabetic-like wound healing using copolymer-grafted nanodiamonds"</i>	
PP 2.097	<b>Foteini Gkartziou</b> <i>"Co-treatment with Daptomycin and Bacteriophage K liposomes realizes superior in vitro activity compared to free actives."</i>	
PP 2.098	<b>Foteini Gkartziou</b> <i>"The effect of Liposome Preparation Method on Physicochemical Properties and Antimicrobial Activity of Liposomal Moxifloxacin."</i>	
PP 2.099	<b>Martyna Krajewska</b> <i>"Interactions between molecules of oleic and oleanolic acid in the pharmaceutical formulations - physicochemical perspective"</i>	

PP 2.100	<b>Souhaila Nider</b> <i>"Rheological characterization of camphene-based capillary suspensions for bone implants fabrication"</i>
PP 2.101	<b>Athanassios Missirlis</b> <i>"Freeze-dried liposomal formulations loaded with Cefuroxime"</i>
PP 2.102	<b>Evangelos Natsaridis</b> <i>"Moxifloxacin liposomes prepared by a novel active-loading-microfluidic-mixing method demonstrate increased loading and sustained release kinetics."</i>
PP 2.103	<b>Monika Wasilewska</b> <i>"Electrokinetic, viscoelastic and optical properties of the biocompatible multilayers based on polysaccharides - the impact of the films on the cell adhesion"</i>
PP 2.104	<b>Matthias Barz</b> <i>"Nanomedicine based on Polypept(o)ides"</i>
PP 2.105	<b>Daniel J. Williams</b> <i>"Understanding the toxicity of drug-loaded metal-shell microcapsules."</i>
PP 2.106	<b>Sulalit Bandyopadhyay</b> <i>"Scalable Production of Silica-coated Magnetic Nanobeads and their Applications in Viral Diagnostics"</i>
PP 2.107	<b>Helena Mateos</b> <i>"Surfactant interactions with feline Coronavirus"</i>
PP 2.108	<b>Viktor Eriksson</b> <i>"Encapsulation and Sustained Release of Octenidine Dihydrochloride from PLGA Microcapsules"</i>
PP 2.109	<b>Samuel Watts</b> <i>"In situ Characterization of Viruses Colloidal Systems for Design of Antiviral Solutions"</i>
PP 2.110	<b>Ioanna Chazapi</b> <i>"Specific interactions of ionic boron clusters with proteins."</i>
PP 2.111	<b>Simona Káčerová</b> <i>"Bioactive Films Based on Chitosan and Polypyrrole"</i>
PP 2.112	<b>Martina Martínková</b> <i>"Conducting film prepared in colloidal dispersion mode, the efficient way of surface functionalization"</i>
PP 2.113	<b>Leona Mahelová</b> <i>"Cytocompatibility of Polypyrrole Thin Layers Synthesized In Situ with Polyurethane Electrospun Mats"</i>
PP 2.114	<b>Inga Litzen</b> <i>"Reactive microgels as platform for design of complex cell-culture substrates using microcontact-printing and post-modification"</i>
PP 2.115	<b>Maria Psarrou</b> <i>"Polysaccharide-functionalized iron oxide nanoparticles for mRNA delivery"</i>

PP 2.116	<b>Eliézer Jäger</b> <i>"Tumour microenvironment-responsive polymer-based nanomedicines for therapeutic applications in cancer"</i>
PP 2.117	<b>Theodore Manouras</b> <i>"Novel drug delivery system based on multifunctional PEO-b-polyacetal diblock copolymers nanoparticles"</i>
PP 2.118	<b>Alessandro Jäger</b> <i>"pH-responsive giant polymer vesicles for biomedical applications"</i>
PP 2.119	<b>Karolina Krautforst</b> <i>"Liquid crystalline nanoparticles for encapsulation of pharmaceutically active compounds from marine algae"</i>
PP 2.120	<b>Pietro Milesi</b> <i>"Superfluorinated nanoprobos for T Lymphocytes tracking by 19F Magnetic Resonance Imaging"</i>
PP 2.121	<b>Sergio Murgia</b> <i>"Liquid Crystalline Nanoparticles for Photodynamic Therapy"</i>
PP 2.122	<b>Lenka Loukotov</b> <i>"Gold Nanoparticles Stabilized by Polydiacetylenes"</i>
PP 2.123	<b>Leon Klug</b> <i>"Polyelectrolyte polymer networks for the uptake of charged short-chained polyamides"</i>
PP 2.124	<b>Sonya Tsibranska</b> <i>"In vitro study of triglyceride lipolysis: cholesterol lowering by phytosterols and Quillaja saponaria extract"</i>
PP 2.125	<b>Raouf Nusseir</b> <i>"A comparison between Lutrol F-127 and <math>\beta</math>-casein micelles using Calorimetry and Cryo-EM"</i>
PP 2.126	<b>Jennifer Gilbert</b> <i>"Lipid nanoparticles using cationic ionisable lipids: Effect of cargo on structure"</i>
PP 2.127	<b>Kludia Kvaková</b> <i>"Fluorescent Nanodiamonds Modified with Biocompatible Polymers"</i>
PP 2.128	<b>Martina Havlíková</b> <i>"Study of Interaction between Cationic Ion Pair Amphiphile Vesicles and Hyaluronan"</i>
PP 2.129	<b>Adam Jugl</b> <i>"Physicochemical Study of Interactions between Catanionic Vesicles and Hyaluronan"</i>
PP 2.130	<b>Noemi Gallucci</b> <i>"Aptamer biosensor for LPS using F-doped ZnO nanoparticles"</i>
PP 2.131	<b>Vahid Motlaq</b> <i>"Spontaneous vesicle formation in mixture of phospholipid and amphiphilic drugs"</i>



PP 2.132	<b>Ecaterina Gore</b> <i>"Techno-functional properties of lecithin in the context of cosmetic formulation"</i>
PP 2.133	<b>Patrycja Gnacek</b> <i>"A physicochemical and spectroscopic characterization of novel erlotinib conjugates with platinum nanoparticles"</i>
PP 2.134	<b>Vladimir Proks</b> <i>"Effect of surfactans on biocompatible and biodegradable poly(N5-2-hydroxypropyl-L-glutamine)-based nanogel preparation and in vivo imaging of nanogel biodistribution"</i>
PP 2.135	<b>Eduardo Marques</b> <i>"Photochromic surfactant/monoolein nanovectors for the smart delivery of nucleic acids"</i>

### Advanced colloid Science for Applications and Products







PP 2.136	<b>Markus Retsch</b> <i>"Colloidal Approaches towards Passive Daytime Cooling"</i>
PP 2.137	<b>Thomas Zemb</b> <i>"Rare earth liquid-liquid phase transfer facilitated by hydrotropes for intensified processes"</i>
PP 2.138	<b>Yixuan Du</b> <i>"Assembly of polymer donor: acceptor nanoparticles for high performance optoelectronic applications"</i>
PP 2.139	<b>Marie-Carole Kouassi</b> <i>"Polysaccharide-based microparticles as delivery systems for cosmetic actives: design, stability, interactions with cosmetic formulations"</i>
PP 2.140	<b>Anna Dzimitrowicz</b> <i>"Cold atmospheric plasma technology as a versatile approach for producing rhenium nanostructures of catalytic properties"</i>
PP 2.141	<b>Matin Mirbaha</b> <i>"Conductive hydrogel beads: New generation of flowable electrodes"</i>
PP 2.142	<b>Emre Yavuz</b> <i>"Preparation of colourful solar reflective coatings via sol-gel method"</i>
PP 2.143	<b>Katrin Laos</b> <i>"Water sorption behaviour of commercial furcellaran"</i>
PP 2.144	<b>Hans Martin Sauer</b> <i>"Printed Gloss: Pigment Alignment in Liquid Films"</i>
PP 2.145	<b>Ivan Lesov</b> <i>"Role of particles size on the cohesive strength of non-sintered (green) ceramics"</i>
PP 2.146	<b>Anna Musyanovych</b> <i>"Polymeric Capsules with VOCs for Controlled Emission"</i>



PP 2.147	<b>Mihail Georgiev</b> <i>"Phase separation of saturated micellar network and its potential applications for nanoemulsification"</i>
PP 2.148	<b>Filippo Agresti</b> <i>"PMMA nano-encapsulated phase change material colloids for heat management applications"</i>
PP 2.149	<b>Davide Schirone</b> <i>"Rational formulation of a more sustainable household cleaning product"</i>
PP 2.150	<b>Burak Akdeniz</b> <i>"Local Zeta Potential correction in Dead-end Pore"</i>
PP2.151	<b>Tatiana Slavova</b> <i>"Enhanced solubility of methyl ester sulfonates below their Krafft points in the presence of nonionic cosurfactants"</i>
PP 2.152	<b>Martina Klučáková</b> <i>"Diffusion of pharmaceuticals in agarose hydrogels enriched by humic acids"</i>
PP 2.153	<b>Lucie Delforce</b> <i>"Using the HLDN equation to design direct and reverse emulsions stabilized by highly effective dodecylglycerylether surfactant"</i>
PP 2.154	<b>Valentin Bardoula</b> <i>"Poly(2-oxazoline)s as smart PEG-alternatives: high tunability and versatility for an easy access to a wide range of hydrophilic emulsion stabilizers"</i>
PP 2.155	<b>Braulio Macias-Rodriguez</b> <i>"Structure and mechanics of double network gels from colloidal-granular particles"</i>
PP 2.156	<b>Sulalit Bandyopadhyay</b> <i>"Scalable Production of Silica-coated Magnetic Nanobeads and their Applications in Viral Diagnostics"</i>
PP 2.157	<b>Anwasha Sarkar</b> <i>"Microgels as lubricants and rheology modifiers"</i>

### Composite Materials and Nanostructures

PP 2.158	<b>Alesya Mikhailovskaya</b> <i>"Reinforced hydrogels: polymer cross-linking by emulsion droplets"</i>
PP 2.159	<b>Krassimir Velikov</b> <i>"Edible bio-based oleofilms from cellulose microfibrils - stabilized Pickering emulsions"</i>
PP 2.160	<b>Diane Rébiscoul</b> <i>"Thin layer of organosilane having specific functionality for the understanding of rare earth extraction"</i>
PP 2.161	<b>Sanjay Jatav</b> <i>"Templating the Growth of Bi<sub>2</sub>MoO<sub>6</sub> with Clay-like Materials toward Sorbent Photocatalytic Composites"</i>

PP 2.162	<b>Magdalena Zięzio</b> <i>"Synthesis and application of CoFe<sub>2</sub>O<sub>4</sub>/TiO<sub>2</sub>-doped activated carbon-based nanophotocatalysts"</i> 
PP 2.163	<b>Magdalena Zięzio</b> <i>"Pyrolysis atmosphere impact on the textural properties and the surface chemistry of activated carbons"</i> 
PP 2.164	<b>Irene López-Sicilia</b> <i>"Study of the chiro-optical and electronic properties of a solid-state o-OPE at the air-water interface"</i>
PP 2.165	<b>Katarina Jerin</b> <i>"Influence of ionic strength and anion type on the properties of chitosan-carboxymethylcellulose nanofilm"</i>
PP 2.166	<b>Meriem Saadli</b> <i>"Hybrid soft micro-actuators with tunable response to the magnetic field"</i>
PP 2.167	<b>Mathieu Nespoulous</b> <i>"New porous material design via emulsion freezing"</i>
PP 2.168	<b>Alicja Bosacka</b> <i>"Kaolin-based composites structural, morphological, porous, thermal, and adsorption characteristics"</i> 
PP 2.169	<b>Alicja Bosacka</b> <i>"Physicochemical and adsorption properties of polymer microspheres as materials for the removal of organic compounds"</i> 
PP 2.170	<b>Marta Kalbarczyk</b> <i>"The synthesis and adsorption studies of biphasic calcium phosphate material originated from avian eggshells"</i>
PP 2.171	<b>Karolina Pietrzak</b> <i>"Chloride SCISEs based on a nanocomposite of polyaniline nanofibers and multiwalled carbon nanotubes (PANINFs-Cl:MWCNTs)"</i> 
PP 2.172	<b>Oleta Norvilaite</b> <i>"Synthesis of Micron-Sized Silica-Coated PMMA Latex Particles"</i>
PP 2.173	<b>Karolina Pietrzak</b> <i>"Testing water samples for the content of nitrate ions using ion-selective electrodes with solid contact"</i> 
PP 2.174	<b>Markus Ahlskog</b> <i>"Conducting thin films from xylan-dispersed carbon nanotubes"</i>
PP 2.175	<b>Gal Shachar-Michaely</b> <i>"Mixed dimensionality: Highly robust and multifunctional carbon-based composites"</i>
PP 2.176	<b>Selim Basaran</b> <i>"Plasmonic Stimulation of Gold Nanorods for the Control of Living Materials"</i>



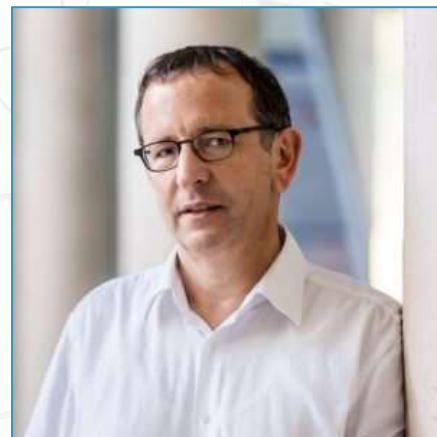
PP 2.177	<b>Anna Pajor-Świerzy</b> <i>"Nanocomposite pastes based on metallic nanoparticles for fabrication of conductive coatings"</i>
PP 2.178	<b>Evangelia Giannakaki</b> <i>"Improving the Self-healing Properties of Polyurethanes by Incorporation of Reduced Graphene Oxide"</i>
PP 2.179	<b>Goekalp Engin Akinoglu</b> <i>"Quasi-Babinet complementary plasmonic templates: Optical properties and applications"</i>
PP 2.180	<b>Ioannis Karnis</b> <i>"Altering the Interfacial Interactions in Polymer / Graphene Oxide Nanocomposites"</i>
PP 2.181	<b>Ioannis Sampson</b> <i>"The interior amorphous architecture of proteinaceous adhesive marine mussel plaques"</i>
PP 2.182	<b>Kiriaki Chrissopoulou</b> <i>"Unusual Rheological Response in PEO / SiO<sub>2</sub> nanocomposites"</i>
PP 2.183	<b>Ágota Deák</b> <i>"Antimicrobial effect on photoreactive nanocomposite thin films"</i>
PP 2.184	<b>Marta Kalbarczyk</b> <i>"The synthesis of zinc-doped multiphasic calcium phosphates"</i>
PP 2.185	<b>Manuel Cano</b> <i>"Nanostructured composite materials as electrocatalysts for electrochemical energy-conversion devices"</i>
PP 2.186	<b>Edit Csapó</b> <i>"Noble metal nanoclusters with structure-tunable fluorescent properties: synthesis, characterization and biomedical utilizations"</i>
PP 2.187	<b>Eduardo Marques</b> <i>"Colloid assembly of (GnP@MoS<sub>2</sub>)/MWNT nanocomposites and their electrocatalytic activity for energy-related oxygen reactions"</i>

### Chinese-European Symposium

PP 2.188	<b>Shuai Li</b> <i>"Enhanced condensation by rapid droplet coalescence of binary liquids on PDMS brushes"</i>
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*Plenary Lectures and Keynote Speakers for Wednesday 7<sup>th</sup> of September*Plenary Lectures

**Markus Antonietti** (Max Planck Institute, Germany) is full Professor at the University of Potsdam and the Director for “Colloid Chemistry” at the Max Planck Institute of Colloids and Interfaces. He studied Chemistry and Physics at the University of Mainz and received his Ph.D. from the same University, where he was appointed Assistant Professor in 1985. In 1990, he obtained the Habilitation in Physical Chemistry. Since 1993 he holds his current positions at the University of Potsdam and the Max Planck Institute. During his longstanding career, Prof. Antonietti has been pioneering in numerous topics of colloid and polymer science. His current scientific interests include, among others, self-organization and self-assembly, porous polymers, biomimetic materials, green materials, chemistry of the energy and ram material change, metal free catalysis and artificial photocatalysis. Prof. Antonietti has been the recipient of several awards and honorary fellowships, including 3 ERC Grants. <https://www.mpikg.mpg.de/colloid-chemistry/director/markus-antonietti>



**Gijsje Koenderink** (TU Delft, The Netherlands) is full Professor in the Bionanoscience Dept of the TU Delft and Professor by special appointment at the VU University Amsterdam. She obtained a M.Sc. and Ph.D. in Chemistry at Utrecht University and trained as a Marie Curie postdoctoral Fellow at the VU Univ. Amsterdam and Harvard Univ. In 2006 she established the Biological Soft Matter group at the FOM Institute AMOLF, where she also headed the Living Matter Department. Koenderink’s group focuses on quantitative experimental studies of the material properties of cells and tissues. She combines bottom-up synthetic biology approaches with multiscale physical characterization from single molecule force spectroscopy to rheometry. Her group closely collaborates with biological and biomedical groups to address the role of cell and tissue mechanics in disease and tissue regeneration. She received various distinctions, including an NWO VIDI (2008), elected membership of the Young Academy of the KNAW (2008), ERC Starting Grant (2013), NWO VICI (2019) and the P-G. de Gennes Prize (2018). <https://www.tudelft.nl/en/faculty-of-applied-sciences/about-faculty/departments/bionanoscience/research/research-labs/koenderink-lab>



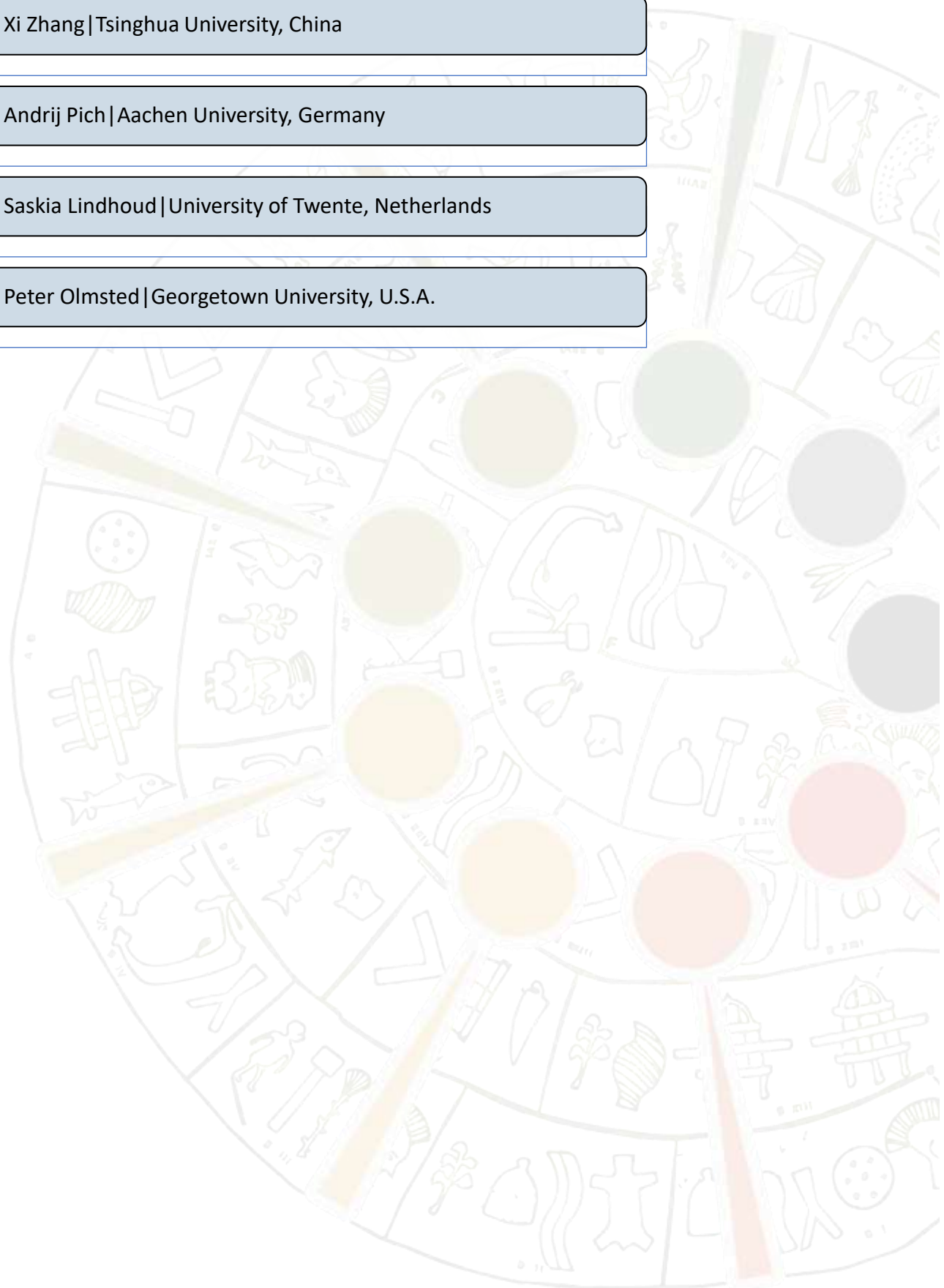
Keynote Speakers

K.N. 1.1 Xi Zhang | Tsinghua University, China

K.N. 1.2 Andrij Pich | Aachen University, Germany

K.N. 1.3 Saskia Lindhoud | University of Twente, Netherlands


K.N. 1.4 Peter Olmsted | Georgetown University, U.S.A.





Wednesday, 7<sup>th</sup> September 2022

08:30-09:15	<b>Imperial Hall Room 1 (Hybrid)</b>			
	<b>Plenary Talk</b> <b>Markus Antonietti</b> , Max Planck Institute <i>"Making Polymer Colloids More Sustainable"</i> <b>Chair: Ishi Talmon</b> , Technion-Israel Inst. of Technology			
09:15-09:45	<b>Coffee Break</b>			
09:45-11:55	<b>Imperial Hall Room 1 (Hybrid)</b>	<b>Imperial Hall Room 2</b>	<b>Imperial Hall Room 3</b>	<b>Imperial Hall Room 4</b>
	<b>Chinese-European Symposium</b>	<b>Design and Synthesis of Colloidal Systems and Nanoparticles</b>	<b>Active and Bioinspired Colloidal Systems</b>	<b>Composite Materials and Nanostructures</b>
	<b>Chair Hans-Juergen Butt</b> , Max Planck Institute for Polymer Research	<b>Chair Maud Save</b> , IPREM CNRS Univ. PAU	<b>Chair Joost De Graaf</b> , Utrecht University	<b>Chair Andreas Fery</b> , IPF Dresden
09:45	<b>KN 1.1: Xi Zhang</b> , Tsinghua University <i>"Supramolecular polymerization at interfaces"</i>	<b>KN 1.2: Andrij Pich</b> , RWTH Aachen University <i>"Functional microgels with non-covalent crosslinks: Towards soft adaptive colloidal systems"</i>	<b>KN 1.3: Saskia Lindhoud</b> , University of Twente <i>"Separation by complexation"</i>	<b>KN 1.4: Peter Olmsted</b> , Georgetown University <i>"Diffusion in a realistic simulated model for the stratum corneum"</i>
10:15	<b>OP: Dayang Wang</b> , Jilin University <i>"Counterion effect on the water wettability of polycationic surfaces"</i>	<b>OP: Fabien Dutertre</b> , Université Jean Monnet <i>"Chitosan-based hydrogels: Influence of crosslinking strategy on rheological properties"</i>	<b>OP: Gerald Fuller</b> , Stanford University <i>"In-situ magnetic microrheology of airway mucus"</i>	<b>OP: Eric Hill</b> , UNI Hamburg <i>"Templated colloidal growth of semiconductors toward heterostructured nanomaterials"</i>
10:35	<b>OP: Xu Deng</b> , University of Electronic Science and Technology of China <i>"Multi-dimensional manipulation of solid-liquid interaction"</i>	<b>OP: Selin Bulut</b> , Leibniz Institute for Interactive Materials <i>"Synthesis of biocompatible dextran-based microporous microgels via microfluidics"</i>	<b>OP: Lukas Zeininger</b> , Max Planck Institute of Colloids and Interfaces <i>"Active soft colloids for the transduction of biochemical information"</i>	<b>OP: Lilian Okello</b> , North Carolina State University <i>"Design of soft homocomposite silicone gels for 3D printed architectures with magneto-capillary reconfiguration"</i>
10:55	<b>OP: Matthias Barz</b> , Leiden University <i>"Peptomicelles in cancer immune therapy"</i>	<b>OP: Viktória Varga</b> , University of Szeged <i>"Encapsulation of neuroactive drugs in desolvated serum album nanoparticles"</i>	<b>OP: Diana Cholakova</b> , Sofia University <i>"Drop self-shaping, self-bursting and swimming: simple non-living system which enlivens upon temperature variations"</i>	<b>OP: Alexander Tesler</b> , Friedrich-Alexander University <i>"Metallic nanoparticle-on-mirror: multiple-band light harvesting and efficient photocurrent generation under visible light irradiation"</i>
11:15	<b>OP: Jingcheng Hao</b> , Shandong University <i>"Basic study on colloid dispersed systems stimulates chemical industrialization"</i>	<b>OP: Linda Rozenberga</b> , University of South Australia <i>"Fluorescence and sensor properties of colloidal europium-based metal organic framework nanoparticles"</i>	<b>OP: Hannah Jonas</b> , University of Amsterdam <i>"Predicting the anomalous chain length distributions under strong confinement using molecular simulations and Wertheim theory"</i>	<b>OP: Theodora Krasia-Christoforou</b> , University of Cyprus <i>"Fabrication of electrospun organic-inorganic fibrous nanocomposites starting from highly stable colloidal solutions"</i>

<p>11:35</p>	<p><b>OP: Zhenhui Qi,</b> Northwestern Polytechnical University <i>"Structural water and crown ether: new functional supramolecular assemblies"</i></p> 	<p><b>OP: Rory McBride,</b> University of Sheffield <i>"Synthesis of high molecular weight water-soluble polymers as low-viscosity latex particles in salty media"</i></p>	<p><b>OP: Anna Schenk.</b> University of Bayreuth <i>"Hydration responsive strain-induced self-rolling of mesostructured bio-inspired mineral sheets"</i></p>	<p><b>OP: Diane Rebiscoul,</b> CEA/ICSM <i>"Colloidal sol-gel route for the synthesis of mixed actinide oxides"</i></p>
<p>12:00-12:45</p>	<p><b>Imperial Hall Room 1 (Hybrid)</b></p> <p><b>Plenary Talk</b> <b>Gijsje Koenderink, TU Delft</b> <i>"The material properties of soft living matter"</i> <b>Chair: Tommy Nylander, Lund University</b></p>			
<p>12:45-14:20</p>	<p><b>Lunch Break</b></p> <p><i>Minoa Palace Main Restaurant</i></p>			
<p>13:00</p>	<p><b>Excursion</b></p> <p><i>(Lunch box will be provided)</i></p>			

*Plenary Lectures and Keynote Speakers for Thursday 8<sup>th</sup> of September*

Plenary Lecture

**John Francis Brady** (Caltech, USA) is the Chevron Professor of Chemical Engineering and Mechanical Engineering at the California Institute of Technology, USA. He studied in the University of Pennsylvania and obtained a M.Sc. and Ph.D. from Stanford University. He was appointed Associate Professor at Caltech in 1985 and full Professor in 1990. His research interests relate to fluid mechanics and transport processes. He has a special interest in problems at the interface between continuum mechanics and statistical mechanics, as well as in fundamental studies of complex and multiphase fluids. Prof. Brady has received several distinctions for his outstanding scientific contributions. He is an elected fellow of the American Physical Society, a fellow of the Society of Rheology, as well as a member of the National Academy of Sciences, the National Academy of Engineering, and the American Academy of Arts and Sciences.  
<https://www.cce.caltech.edu/people/john-f-brady>



Keynote Speakers

K.N. 1.1 Jianying He | Norwegian University of Science and Technology, Norway

K.N. 1.2 Martin Haase | Utrecht University, Netherlands

K.N. 1.3 Moshe Gottlieb | Ben-Gurion University, Israel

K.N. 1.4 Markus Retsch | University of Bayreuth, Germany

K.N. 2.1 Thomas Palberg | Johannes Gutenberg University, Germany

K.N. 2.2 Pierre Haas | MIPPKS, Germany

K.N. 2.3 Aristotelis Xenakis | National Hellenic Research Foundation, Greece

K.N. 2.4 Krassimir Velikov | Unilever, Netherlands



Thursday, 8<sup>th</sup> September 2022

08:30-09:15	<b>Imperial Hall Room 1 (Hybrid)</b>			
	<b>Plenary Talk</b> <b>John F. Brady, Caltech</b> <i>"The Mechanics of Active Matter"</i> <b>Chair: Gerald Fuller, Stanford University</b>			
09:15-09:45	<b>Coffee Break</b>			
09:45-11:55	<b>Imperial Hall Room 1 (Hybrid)</b>	<b>Imperial Hall Room 2</b>	<b>Imperial Hall Room 3</b>	<b>Imperial Hall Room 4</b>
	<b>Chinese-European Symposium</b>	<b>Colloids at Interfaces, Membranes and Biointerfaces, Emulsions and Foams</b>	<b>Colloids in Biomaterials and Biomedical Applications</b>	<b>Composite Materials and Nanostructures</b>
	<b>Chair</b> <b>Xi Zhang,</b> Tsinghua University	<b>Chair</b> <b>Marcel Rey,</b> University of Gothenburg	<b>Chair</b> <b>Gerardo Palazzo,</b> University of Bari	<b>Chair</b> <b>Theodora Krasia-Christoforou,</b> University of Cyprus
09:45	<b>KN 1.1: Jianying He,</b> Norwegian University of Science and Technology <i>"Lowering ice and gas hydrate adhesion"</i>	<b>KN 1.2: Martin Haase,</b> Utrecht University <i>"Separating chemicals in nanostructured, fluid-bicontinuous gels"</i>	<b>KN 1.3: Moshe Gottlieb,</b> Ben Gurion University <i>"Peptide decorated silica nanoparticles as phosphate binders for the treatment of Hyperphosphatemia"</i>	<b>KN 1.4: Markus Retsch,</b> University of Bayreuth <i>"Thermal transport in self-assembled materials: From high anisotropy to high temperatures"</i>
10:15	<b>OP: Tommy Nylander,</b> Lund University <i>"Lipid assembly morphological changes induced by changes of the solution conditions"</i>	<b>OP: Job Thijssen,</b> The University of Edinburgh <i>"Bicontinuous soft solids with a gradient in channel size"</i>	<b>OP: Vasileios Koutsos,</b> The University of Edinburgh <i>"Microbubble agents for biomedical applications: Soft Nano/Micromechanics at the Interface"</i>	<b>OP: Gerardo D'Errico,</b> Università Federico II <i>"Bio-inspired phenolic polymers in composite materials: from the nanostructure to the multifunctionality"</i>
10:35	<b>OP: Zihan Tan,</b> Forschungszentrum Jülich <i>"An efficient multiparticle collision dynamics approach to membrane protein diffusion"</i>	<b>OP: Chandra Shekhar,</b> Indian Institute of Technology <i>"Rheological characterization of aqueous two-phase emulgels"</i>	<b>OP: Peter Schurtenberger,</b> Lund University <i>"Charge effects on stability and self-assembly of antibodies in solutions – a colloid approach"</i>	<b>OP: Marco Lattuada,</b> University of Fribourg <i>"Preparation of structured biomimetic composite materials through magnetic control of sol-gel phase transitions"</i>
10:55	<b>OP: Liu Jie,</b> Institute of Chemistry Chinese Academy of Sciences <i>"Durable liquid-repellent poly(dimethylsiloxane) coating with anti-fouling and anti-icing performances"</i>	<b>OP: Cheng Cheng,</b> University of Leeds <i>"Understanding the early growth of gold films to provide thin impermeable metal films onto emulsions"</i>	<b>OP: Javier Reguera,</b> BCMATERIALS <i>"Morphological control in multifunctional iron oxide: gold nanoparticles for theranostics"</i>	<b>OP: Anastasia Rissanou,</b> IACM, FORTH and The Cyprus Institute <i>"Conformations and dynamics of polymer chains in cis and trans polybutadiene/silica nanocomposites through atomistic simulations"</i>
11:15	<b>OP: Lan Yang,</b> University College London <i>"Bumpy colloids: synthesis and their applications"</i>	<b>OP: Yanyan Liu,</b> Delft University of Technology <i>"Diffusion across particle-laden interfaces in Pickering emulsions"</i>	<b>OP: Valentina Nigro,</b> ENEA <i>"Thin films of PNIPAM microgels for biocompatible nuclear track detectors in radiobiology"</i>	<b>OP: Loic Hilliou,</b> University of Minho <i>"Dispersion mechanism of organoclay in a polymer nanocomposite studied by in-extruder rheo-optical characterization"</i>

11:35	<b>OP: Xurui Zhang,</b> Xi'an Jiaotong University <i>"Tunable mobility of bubble surface and inward flow in ethanol-NaCl aqueous solution"</i>	<b>OP: Raj Tadi,</b> University of Edinburgh <i>"No silver bullet: compositional ripening in water-in-oil systems"</i>	<b>OP: Dominik Braunmiller,</b> RWTH Aachen <i>"Pre-programmed rod-shaped microgels to create multi-directional anisogels for 3D tissue engineering"</i>	<b>OP: Oren Regev,</b> Ben-Gurion University of the Negev <i>"Compression-enhanced thermal conductivity of carbon loaded polymer composites"</i>
11:55-14:20	<b>Lunch Break</b> <i>Minoa Palace Main Restaurant</i>			
14:20-16:30	<b>Imperial Hall Room 1 (Hybrid)</b>	<b>Imperial Hall Room 2</b>	<b>Imperial Hall Room 3</b>	<b>Imperial Hall Room 4</b>
	<b>Self-Assembly and Supramolecular Structures</b>	<b>Colloids at Interfaces, Membranes and Biointerfaces, Emulsions and Foams</b>	<b>Colloids in Biomaterials and Biomedical Applications</b>	<b>Advanced Colloid Science for Applications and Products</b>
	<b>Chair</b> <b>Lucio Isa,</b> ETH Zurich	<b>Chair</b> <b>Diana Cholakova,</b> Sofia University	<b>Chair</b> <b>Peter Schurtenberger,</b> Lund University	<b>Chair</b> <b>Deniz Z. Gunes,</b> KU Leuven
14:20	<b>KN 2.1: Thomas Palberg,</b> Johannes Gutenberg University <i>"Writing in water"</i>	<b>KN 2.2: Pierre Haas,</b> Max Planck Institute for the Physics of Complex Systems <i>"Theory of shape-shifting droplets"</i>	<b>KN 2.3: Aristotelis Xenakis,</b> National Hellenic Research Foundation <i>"Nanodispersions as effective vehicles for drug delivery"</i>	<b>KN 2.4: Krassimir Velikov,</b> UNILEVER <i>"Advanced structuring technologies at micro- and nano-scale for product functionality control"</i>
14:50	<b>OP: Faniry Andriamiseza,</b> CNRS-Université de Toulouse <i>"From wet spinning to 3D printing of carbohydrate supramolecular hydrogels"</i>	<b>OP: Luigi Cristofolini,</b> University of Parma <i>"Droplet dynamics and emulsion ageing in microgravity by DWS experiments onboard the International Spaces Station"</i>	<b>OP: Davide Orsi,</b> University of Parma <i>"Nanostructures for X-ray photodynamic therapy characterized by direct detection of singlet oxygen during radiotherapy"</i>	<b>OP: Yanshen Zhu,</b> KU Leuven <i>"Utilising inorganic perovskite quantum dots as a 2D high sensitivity optical heat flux meter"</i>
15:10	<b>OP: Franziska Gröhn,</b> University Erlangen-Nurnberg <i>"Self-Assembled nano-objects for solar energy conversion: Photocatalysis and switchability in aqueous solution"</i>	<b>OP: Léa Delance,</b> ESPCI Paris <i>"Uptake kinetics of spontaneously emulsified microdroplets at an air interface"</i>	<b>OP: Fernando Giacomelli,</b> Universidade Federal do ABC <i>"Engineering of pH-triggered nanoplatfoms based on novel poly (2-methyl-2-oxazoline)-b-poly[2-(diisopropylamino) ethyl methacrylate] copolymers with tunable morphologies for biomedical applications"</i>	<b>OP: Peter Mario Worsch,</b> Anton Paar GMBH <i>"Rheo-SAXS study of lamellar-to-onion structure changes"</i>
15:30	<b>OP: Chloé Guzelot,</b> Laboratoire de Genie Chimique <i>"Development of cross-linked porous materials for membrane filtration: polymerization of microemulsions using non-polymerizable surfactants"</i>	<b>OP: Eli Sloutskin,</b> Charles University <i>"Self-positioning of colloids and fluorophores on interfacially-frozen alkane-in-water liquid spheres"</i>	<b>OP: Beatrice Lucia Bona,</b> Politecnico di Milano <i>"Nanotherapeutics for cardiac pathologies: from NP development to their biological behaviour comprehension"</i>	<b>OP: Rut Besseling,</b> InProcess-LSP <i>"Spatially resolved dynamic light scattering: characterizing colloids over unprecedented ranges of turbidity and flow"</i>

15:50	<b>OP: Maeva Lafitte</b> Centre de Recherche Paul Pascal <i>"Self-assembled nano-colloidal resonators for advanced metasurfaces"</i>	<b>OP: Katherine Lefroy,</b> University of Leeds <i>"Hydrophobic' cellulose microgels: the influence of particle size on water-in-oil emulsion stability"</i>	<b>OP: Pavel Švec,</b> Institute of Organic Chemistry and Biochemistry Prague <i>"XMaNs - Universal lipid nanoparticles for nucleic acid delivery"</i>	<b>OP: Marek Bekir,</b> University of Potsdam <i>"Potential filtration technique for microparticles of equal size but different surface modifications"</i>
16:10	<b>OP: Lucie Laporte,</b> LAMS Sorbonne Université <i>"Influence of lead driers on oil paints' properties: Correlating supramolecular organization and rheology"</i>	<b>OP: Julian Wailliez,</b> Laboratoire de Physique des Solides <i>"Probing surfactant dynamics through interfacial surface tension using millifluidic elongational flow"</i>	<b>OP: Gerardo Palazzo,</b> University of Bari <i>"Unusual gold nanoparticle-antibody interactions"</i>	<b>OP: Tamas Szabo,</b> University of Szeged <i>"Langmuir-Blodgett and LbL deposition of graphene based conductive semitransparent coatings"</i>
16:30-17:00	<b>Coffee Break</b>			
17:00-19:00	<b>Imperial Hall Room 1 (Hybrid)</b>	<b>Imperial Hall Room 2</b>	<b>Imperial Hall Room 3</b>	<b>Imperial Hall Room 4</b>
	<b>Self-Assembly and Supramolecular Structures</b>	<b>Design and Synthesis of Colloidal Systems and Nanoparticles</b>	<b>Colloids in Biomaterials and Biomedical Applications</b>	<b>Advanced Colloid Science for Applications and Products</b>
	<b>Chair</b> <b>Lucio Isa,</b> ETH Zurich	<b>Chair</b> <b>Andrij Pich,</b> RWTH Aachen University	<b>Chair</b> <b>Kevin Roger,</b> INP Toulouse	<b>Chair</b> <b>Krassimir Velikov,</b> UNILEVER
17:00	<b>OP: Roland Kádár,</b> Chalmers University of Technology <i>"How do birefringence patterns relate to shear stress nonlinearities in optically active dispersions?"</i>	<b>OP: Spyridon Varlas,</b> University of Sheffield <i>"Polymerization-induced self-assembly and disassembly during the synthesis of thermo-responsive ABC triblock copolymer nano-objects in aqueous solution"</i>	<b>OP: Jiankang Song,</b> Eindhoven University of Technology <i>"Depletion interaction mediated micronization of proteins"</i>	<b>OP: Andrew Clarke,</b> Schlumberger Cambridge Research <i>"A microstructural investigation of an industrial attractive gel at pressure and temperature"</i>
17:20	<b>OP: Cosima Stubenrauch,</b> University Stuttgart <i>"Transition from a sponge-like to a foam-like nanostructure in water-rich L3 phases"</i>	<b>OP: Ali M. Aboudzadeh,</b> CNRS, IPREM <i>"Design of photosensitizer-based core-shell latex particles by PISA in alcoholic dispersion polymerization"</i>	<b>OP: Simona Sennato,</b> CNR ISC <i>"A novel approach for the determination of number concentration of liposomes by Laser Transmission Spectroscopy"</i>	<b>OP: Nicolas Bremond,</b> ESPCI Paris <i>"Shaping alginate hydrogel and tuning its properties for the design of a tubular bioreactor"</i>
17:40	<b>OP: Ilan Shumilin,</b> Hebrew University of Jerusalem <i>"Modifying macrocycle stability and supramolecular chemistry in a deep eutectic solvent"</i>	<b>OP: Claire Council,</b> Case Western Reserve University <i>"Extrusion: A new method for rapid formulation of high-yield, monodisperse nanobubbles"</i>	<b>OP: Dorota Matyszewska,</b> University of Warsaw <i>"Factors determining the interactions of drugs used to treat chronic obstructive pulmonary disease with model lung surfactants"</i>	<b>OP: Ignacio Martin-Fabiani,</b> Loughborough University <i>"The role of polymer rheology modifiers in the assembly of drying binary colloidal dispersions"</i>
18:00	<b>OP: Otto Glatter,</b> TU Graz <i>"Inverse internally self-assembled particles (ISAsomes)"</i>	<b>OP: Gyorgy Csilla,</b> The University of Sheffield <i>"RAFT dispersion polymerization of methyl methacrylate in mineral oil"</i>	<b>OP: Marta Szczech,</b> Polish Academy of Sciences <i>"Polymeric-based nanocarriers for the treatment of the central nervous system disorders"</i>	<b>OP: Werner Kunz,</b> University of Regensburg <i>"Organic reactions and radical polymerizations in surfactant-free, mesostructured liquids"</i>



18:20	<p><b>OP: Marco Manca,</b> University of Fribourg <i>“Optical tweezer platform for the characterization of pH-triggered colloidal transformations in the oleic acid / water system”</i></p>	<p><b>OP: Nicole Janoszka,</b> University Muenster <i>“Mesoporous multicompartement microparticles of semi-crystalline triblock terpolymers”</i></p>	<p><b>OP: Charaf Eddine Merzougui,</b> Laboratoire de Genie Chimique-CNRS-UPS <i>“Small-angle X-ray scattering (SAXS) to explore blood proteins interactions with polymers”</i></p>	<p><b>OP: Gergana Radulova,</b> Sofia University <i>“Rheological properties of micellar solutions and bicontinuous micellar phases”</i></p>
18:40	<p><b>OP: Julia Sabadini,</b> University of Campinas <i>“Morphological transition in ethoxylated coacervate core micelles”</i></p>	<p><b>OP: Shaghayegh Hamzehlou,</b> POLYMAT <i>“Monte Carlo simulation of the microstructure of bio-versus petroleum-based (meth)acrylates synthesized by emulsion polymerization”</i></p>	<p><b>OP: Nihal Aydogan,</b> Hacettepe University <i>“Synergistic Therapy of Breast Cancer by NIR-Responsive Nanostructured Lipid Carriers Containing Gold Nanorods”</i></p>	<p><b>OP: Jesus F. Ontiveros,</b> ENSCL-Centrale Lille <i>“Dynamic phase inversion as a tool to track the “optimal formulation” of microemulsions. Practical applications”</i></p>
19:00-20:00	<p><b>General Assembly</b></p> <p><i>Imperial Hall Room 1</i></p>			
20:00	<p><b>Conference Dinner</b></p> <p><i>“Sapel” Beach Restaurant</i></p>			

## Award Talks and Keynote Speakers for Friday 9<sup>th</sup> of September

### 2022 Overbeek Gold Medal of the European Colloid & Interface Society

**Hans-Jürgen Butt** (Max Planck Institute, Germany) is a Director and Scientific Member at the Max Planck Institute for Polymer Research (since 2002). He studied physics in Hamburg and Göttingen. He did his PhD at the Max-Planck-Institute of Biophysics in Frankfurt in 1989. After a postdoc in Santa Barbara, California, and a research period back at the Max-Planck-Institute for Biophysics, he became associate professor for physical chemistry at the University of Mainz in 1996 and three years later full professor at the University of Siegen. In 2002 he joined the Max Planck Institute of Polymer Research in Mainz as a director. His research focuses on experimental physics of soft matter interfaces. He contributed to our understanding of atomic force microscopy, e.g., for measuring surface forces. In the last two decades controlling the wetting of surfaces has developed into a major research topic in his group. <https://www.mpip-mainz.mpg.de/en/butt/director>.



### 2022 Solvay Prize of the European Colloid & Interface Society

**Patrick Warren** (Hartree Centre, STFC Daresbury, UK) is a staff scientist in the Chemistry and Materials Group in the Hartree Centre in the UK – part of the UK's Science and Technology Facilities Council and a leading center in the UK for high-performance computing and digital innovation. He obtained his PhD in 1990 under Robin Ball in Sam Edwards' condensed matter theory group in Cambridge. After short stints in post-doctoral positions, in 1992 he took up a permanent position in Unilever's R&D Laboratory in Port Sunlight near Liverpool. In 2020 he moved to join the Hartree Centre. His research interests have covered the phase behaviour of complex mixtures, hydrodynamics and microscale transport processes, simulation methodologies such as lattice Boltzmann and dissipative particle dynamics, and novel applications of statistical mechanics for example to the appearance and dynamics of hair fibre bundles (ponytails) and friction transmission in spun yarns and woven fabrics. Amongst various distinctions, he was recently (2022) awarded an Honorary Chair in the School of Physics and Astronomy at the University of Edinburgh. <https://sites.google.com/site/patrickbwarren/>.



### Keynote Speakers

K.N. 1.1 Zahari Vinarov | Sofia University, Bulgaria

K.N. 1.2 Benjamin Abecassis | CNRS and ENS Lyon, France

K.N. 1.3 Joost De Graaf | Utrecht University, Netherlands

K.N. 1.4 Anne Laure Fameau | INRAE, France

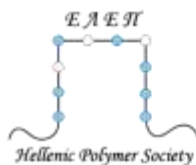
Friday, 9<sup>th</sup> September 2022

09:00-09:45	<b>Imperial Hall Room 1 (Hybrid)</b>			
	<b>Award Talk</b> <b>Overbeek Gold Medal</b> <b>Hans-Juergen Butt</b> , Max Planck Institute <i>"Electrostatic charging: the source of the missing force on moving drops"</i> <b>Chair: Dganit Danino</b> , Technion Israel Institute of Technology			
09:45-10:15	<b>Coffee Break</b>			
10:15-12:25	<b>Imperial Hall Room 1 (Hybrid)</b>	<b>Imperial Hall Room 2</b>	<b>Imperial Hall Room 3</b>	<b>Imperial Hall Room 4</b>
	<b>Colloids in Biomaterials and Biomedical Applications</b>	<b>Design and Synthesis of Colloidal Systems and Nanoparticles</b>	<b>Active and Bioinspired Colloidal Systems</b>	<b>Advanced Colloid Science for Applications and Products</b>
	<b>Chair</b> <b>Simona Sennato</b> , Sapienza University of Rome	<b>Chair</b> <b>Franziska Gröhn</b> , University Erlangen-Nürnberg	<b>Chair</b> <b>Daniel Harries</b> , Hebrew University	<b>Chair</b> <b>Piotr Warszyński</b> , Surface Chemistry Polish Academy of Sciences
10:15	<b>KN 1.1: Zahari Vinarov</b> , Sofia University <i>"Colloids and interfaces: the missing link in understanding how advanced oral formulations improve drug absorption"</i>	<b>KN 1.2: Benjamin Abecassis</b> , CNRS and ENS Lyon <i>"Persistent nucleation and size dependent attachment kinetics produce monodisperse PbS nanocrystals"</i>	<b>KN 1.3: Joost De Graaf</b> , Utrecht University <i>"Understanding enhanced rotational dynamics of active probes in rod suspensions"</i>	<b>KN 1.4: Anne Laure Fameau</b> , INRAE <i>"Non-aqueous foams stabilized by crystalline particles: from design to applications"</i>
10:45	<b>OP: Radiom Milad</b> , ETH-Zürich <i>"Genetic or chemical conjugation influences the nanomechanics of virus-like particle (VLP) vaccines"</i>	<b>OP: Martin Reifarth</b> , University Potsdam <i>"Multi-functional patchy SiO<sub>2</sub> particles: Fabrication via microcontact printing and directed self-assembly"</i>	<b>OP: Arturo Moncho-Jorda</b> , University of Granada <i>"Controlling the structure, phase behavior and dynamics of soft colloids by active interaction switching"</i>	<b>OP: Eva Judy</b> , Eindhoven University of Technology <i>"Mechanistic aspects of drug encapsulation in colloidal assemblies"</i>
11:05	<b>OP: Andreas Stadler</b> , Forschungszentrum Jülich <i>"Effect of red blood cell shape changes on hemoglobin interactions and dynamics: a neutron scattering study"</i>	<b>OP: Maria Karayianni</b> , National Hellenic Research Foundation <i>"Development of double hydrophilic block copolymer/porphyrin ion complex micelles towards photofunctional nanoparticles"</i>	<b>OP: Edward Ong</b> , Cornell University <i>"Can activity in a 3D dense suspension of Quincke rotors cause thickening or dethickening?"</i>	<b>OP: Mingyu Yuan</b> , TU Berlin <i>"In-situ investigation of Ca<sup>2+</sup> effects on humic acid aggregation with polyelectrolyte for water treatment"</i>
11:25	<b>OP: Aneta Michna</b> , Surface Chemistry Polish Academy of Sciences <i>"Adsorption kinetics of neurotrophins on polyelectrolyte multilayers- the impact of films on neuroblastoma cell viability"</i>	<b>OP: Kornelia Gawlitzka</b> , Bundesanstalt für Materialforschung und -Prüfung <i>"Fluorescent molecularly imprinted polymer particles for direct detection of glyphosate in organic solvents and water"</i>	<b>OP: Antoine Deblais</b> , University of Amsterdam <i>"Chromatographic separation of active polymer-like worm mixtures by contour length and activity"</i>	<b>OP: Igor Siretanu</b> , University of Twente <i>"Facet-dependent surface charge and hydration of colloidal nanoparticles at variable pH"</i>



11:45	<b>OP: Kevin Roger,</b> INP Toulouse <i>"Assessing suspension and infectivity times of virus-loaded aerosols involved in airborne transmission"</i>	<b>OP: Krzysztof Szczepanowicz,</b> Polish Academy of Sciences <i>"Sequential adsorption of charged nano-objects as a method of functionalization of drug delivery systems"</i>	<b>OP: Andreas Zöttl,</b> University of Vienna <i>"Role of self-generated fluid flows in active colloids moving through polymer networks"</i>	<b>OP: Georgios Bokias,</b> University of Patras <i>"Novolac-based microcapsules containing isocyanate reagents for self-healing applications"</i>
12:05	<b>OP: Agata Baryzewska,</b> Max Plank Institute of Colloids and Interfaces <i>"Dynamic Janus emulsions as foodborne bacteria sensors via targeting exoenzyme production"</i>	<b>OP: Fabian Sobotta,</b> Eindhoven University of Technology <i>"Polymerization-induced electrostatic self-assembly"</i>	<b>OP: Mihail Popescu,</b> University of Sevilla <i>"Understanding the non-equilibrium interactions governing the tracer response near chemically active confined Janus particles"</i>	<b>OP: Maud Save,</b> IPREM CNRS Univ. PAU <i>"Design of colloidal molecularly imprinted polymer colloids as biomimetic sorbent for recognition and separation of nonylphenol pollutant"</i>
12:30-13:15	<b>Imperial Hall Room 1 (Hybrid)</b> <b>Award Talk</b> <b>Solvay Prize</b> <b>Patrick B. Warren,</b> STFC Hartree Centre <i>"Colloidal diffusiophoresis – a brief history and recent applications"</i> <b>Chair: Epameinondas Leontidis,</b> University of Cyprus			
13:15-13:45	<b>Closing Ceremony &amp; Prizes</b> <i>Imperial Hall Room 1</i>			
13:45-14:05	<b>Sotirios Kiokias,</b> <i>Overview of Marie Skłodowska-Curie Actions (MSCA) in Horizon Europe/ Focus on MSCA "Staff Exchanges-SE" Action.</i> <i>European Research Executive Agency/European Commission</i> <i>Imperial Hall Room 4</i>			
13:45-15:00	<b>Lunch Break</b> <i>Minoa Palace Main Restaurant</i>			
	<b>End of Conference</b>			

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