

Scientific Program



Next-generation light scattering technologies

NanoLab 3D

Accurate **particle sizing** with no need for dilution thanks to the embedded multiple scattering filter.
Also enables **viscometry** on low volumes and **aggregate** detection.



LS Spectrometer

Most powerful light scattering instrument on the market, enabling **particle size and shape** characterization, as well as **molecular weight** determination & much more.



DWS RheoLab

Contact-free rheometer for measurements on samples at rest, on an extended frequency range and under sealed conditions. A convenient solution to monitor **formulation stability** or characterize processes such as **gelation**.



Visit www.lsinstruments.com for more information, or contact us at info@sinstruments.com!

Table of Contents

Welcome	4
Committees.....	5
International Scientific Committee	5
Local Organizing Committee.....	5
ECIS2022 Sessions & Organizers	6
Chinese-European Symposium.....	8
Satellite Session: “Tribological effects on rheology of suspensions: Surface forces, contact effects, and chemical modifications”	8
ECIS2022 Awards	9
General Information	10
Registration	10
Information for Chairs and Presenters	10
The Venue.....	12
The Conference Venue Map	13
How to arrive to the Venue	14
Food and Beverages during ECIS2022	15
Social Activities	16
Welcome Reception	16
Conference Dinner.....	16
Wednesday Afternoon Tour	17
Program	19
Sunday, 4 th September 2022	19
Plenary Lectures and Keynote Speakers for Monday 5 th of September	20
Monday, 5 th September 2022	21
Poster Session 1	24
Plenary Lectures and Keynote Speakers for Tuesday 6 th of September	38
Tuesday, 6 th September 2022	39
Poster Session 2	42
Plenary Lectures and Keynote Speakers for Wednesday 7 th of September	55
Wednesday, 7 th September 2022	57
Plenary Lectures and Keynote Speakers for Thursday 8 th of September	59
Thursday, 8 th September 2022	60
Award Talks and Keynote Speakers for Friday 9 th of September	64
Friday, 9 th September 2022	65
Organizers	67
Sponsors.....	67
Useful Phone Numbers	68

Welcome

It is our great pleasure to welcome you to the **36th Conference of the European Colloid and Interface Society (ECIS 2022)** that is taking place from **4th to 9th 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 Platanias 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 2nd and 3rd 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-Jürgen 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
Primož Zihnerl | 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 4th September and will continue on Monday 5th 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.

The 10 pre-selected art of science image contributions will be revealed, and the participants of the conference will have the opportunity to vote online for up to 2 of them, via a simple Contest Poll, which will take 2 minutes to complete. There will be a QR Code which you can scan with the camera of your smart phone.

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 Chairpersons

Chairpersons are responsible for the overall organization and coordination of their session. At the session, they 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 5th September 2022 from 19:00 to 20:30 at the Athina Hall.

Poster Session 2 is scheduled on Tuesday 6th 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.

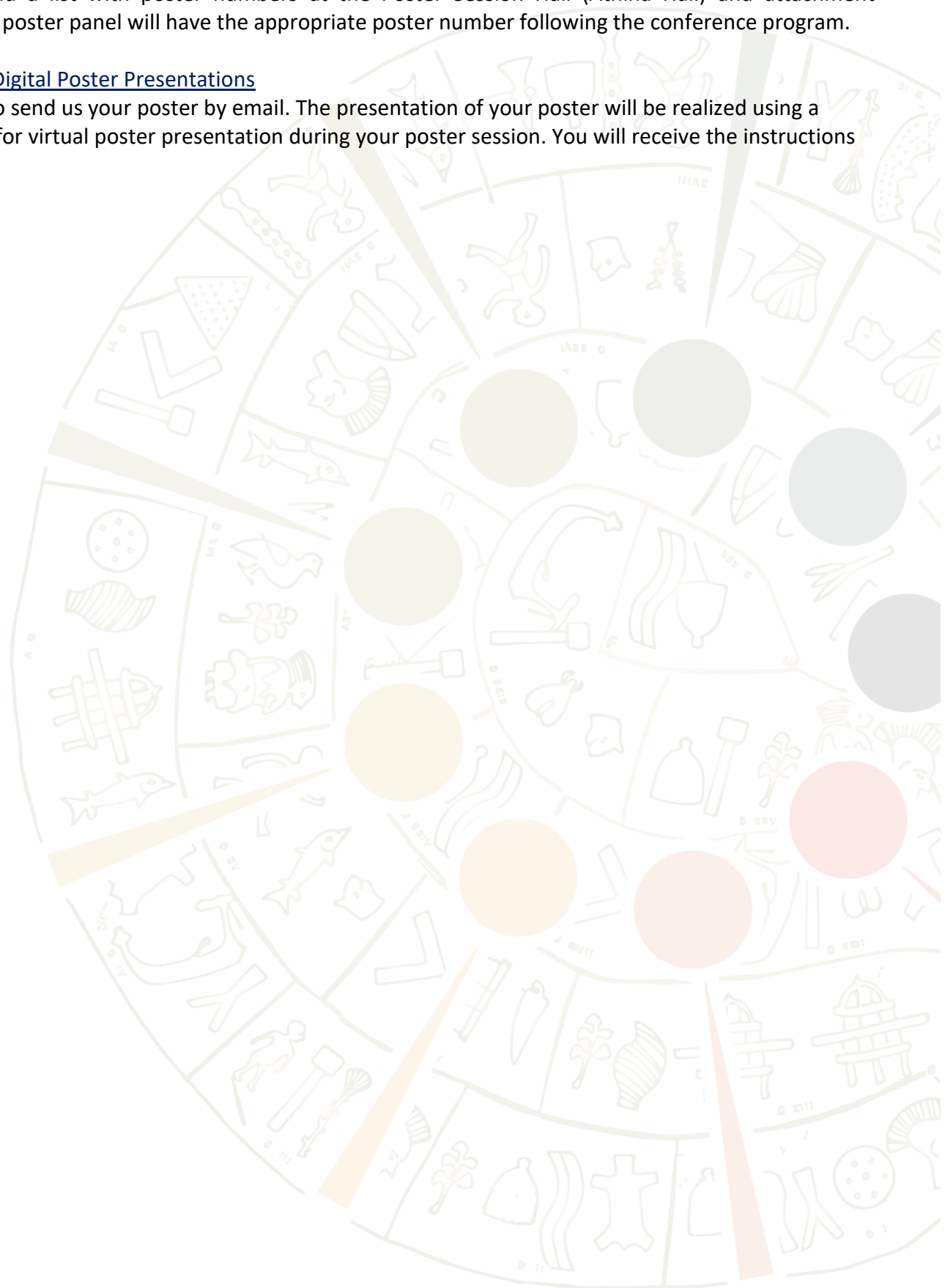
(3) Poster presenters of Poster Session 1 can hang up their poster during the morning coffee break and lunch break on the 5th and take them down during the 1st coffee break on the 6th of September. Poster

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

(4) You will find a list with poster numbers at the Poster Session Hall (Athena 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 Platanias, 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/>

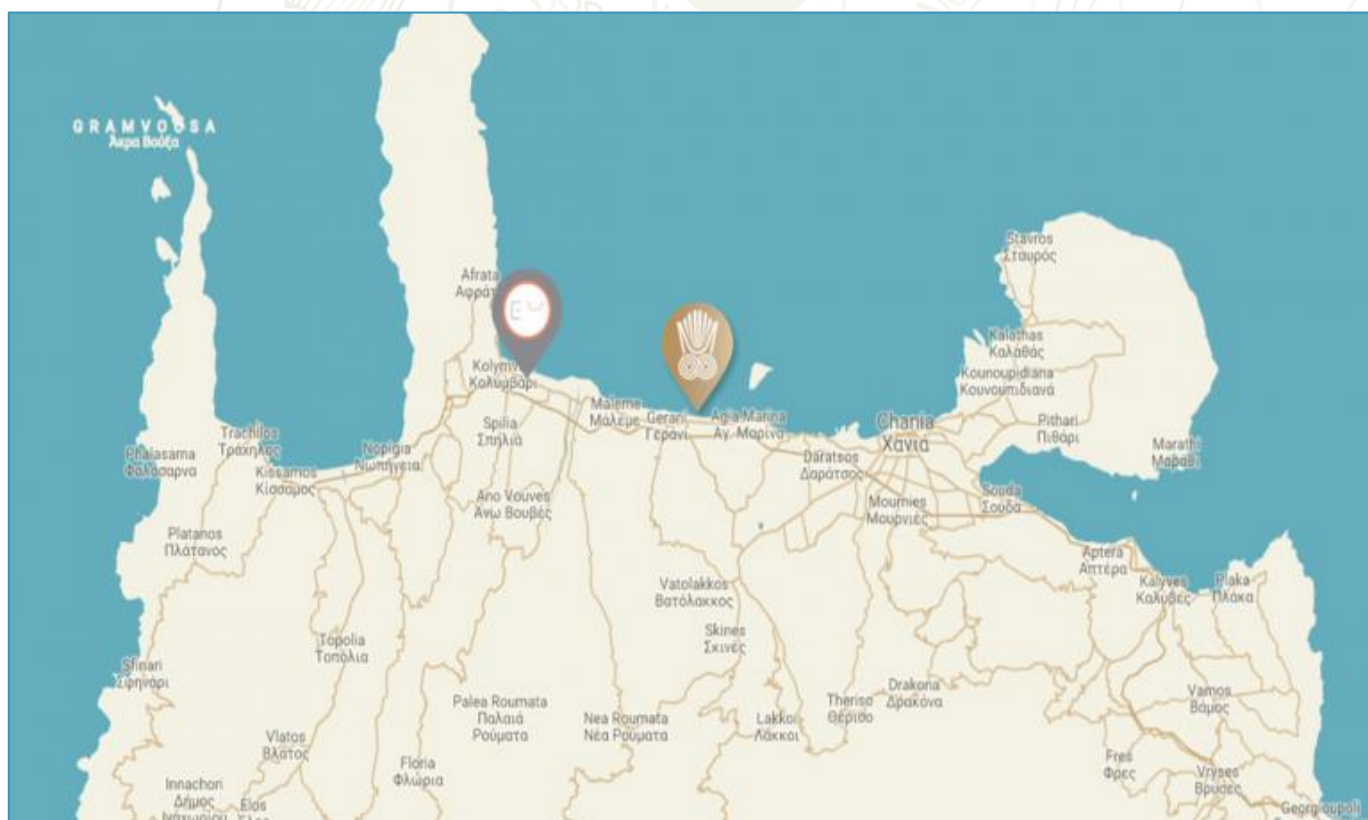


Minoa Palace Resort Hotel

Platanias, Chania, Crete, Greece, 73014

Tel. +30 28210 36500

Email: 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

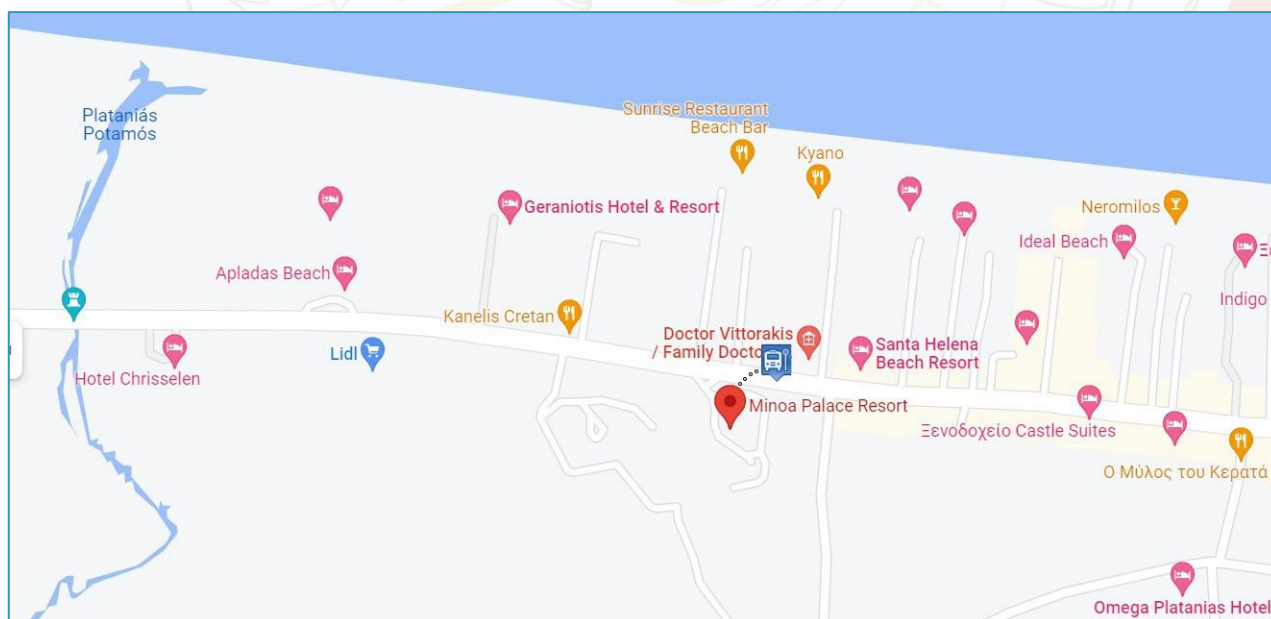
Chania airport → Chania city (Bus station)

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-PALAIIOCHORA





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 4th, and Friday, September 9th. 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 4th or the 9th of September [here](#) until the 31st 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 4th, 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 8th, 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 31st 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 7th, is devoted to socializing and networking. Three different afternoon excursions are offered to ECIS2022 participants.

Please book the afternoon tour of your choice by 31st 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 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 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 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

Sunday, 4th September 2022

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

Plenary Lectures and Keynote Speakers for Monday 5th 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 Schroedinger 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

*Notation: K.N. i, j**i=1,2 : indicates morning (1) or afternoon (2)**j=1-4 : indicates room number*

Monday, 5th September 2022

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

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

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

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

19:00-20:30	<div>Poster Session 1</div> <div>Athina Hall (Hotel Main Building)</div>
Polymers, Polyelectrolytes, Gels and Liquid Crystals	
PP 1.001	Luigi Gentile "Pluronic F127 as a sol-gel matrix for drug delivery carriers"
PP 1.002	Max Dombrowski "Nematic Lyotropic Liquid Crystal Gels"
PP 1.003	Nadja Wolter "Design of asymmetric microgels with liquid crystalline domains via precipitation polymerization"
PP 1.004	Abhishek Rajbanshi "Thermoresponsive engineered emulsion enabled by branched copolymer surfactants"
PP 1.005	Pavčina Marková "Benzoxaborole-derived drug delivery by amphiphilic block copolymers with vicinal diols"
PP 1.006	Sebastian Pineda "acid/base ionization of oligolysines in presence of oppositely charged polyelectrolytes"
PP 1.007	Juraj Nikolić "Influence of an anchoring layer on the properties of chitosan-carboxymethylcellulose multilayers"

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

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

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

Design and Synthesis of Colloidal Systems and Nanoparticles	
PP 1.055	Torsten Gereon Linder <i>"Coreshell interfacial interpenetration control forms microgels with switchable elasticity"</i>
PP 1.056	Maria Karayianni <i>"Electrostatically cross-linked chitosan nanoparticles intended for agricultural use"</i>
PP 1.057	Laura Hetjens <i>"Biobased flame retardant coatings based on polyphenol-polyphosphazene colloids"</i>
PP 1.058	Federica Bertelà <i>"Silver Nanoparticles stabilized with citrate and L-cysteine: structural and toxicological studies"</i>
PP 1.059	Takumi Kawamura <i>"Controlling Self-Propelled Motion of Polystyrene Particles with Pt Spots Deposited by UV Irradiation Technique"</i>
PP 1.060	Dimitrios Selianitis <i>"Dual-responsive P(DEGMA-co-DIPAEMA) hyperbranched copolymers as drug-loaded self-assembled nanocarriers"</i>
PP 1.061	Jelena Papan <i>"Highly stabile colloids of barium hexaferrite nanoplatelets coated with tannic acid"</i>
PP 1.062	Evangelia Vasilaki <i>"Non-cross-linked, hollow polymer capsules derived from amphiphilic diblock copolymer brushes in aqueous media"</i>
PP 1.063	Andrei Mitrofanov <i>"Chemical Structure Engineering of Naphthalene Spacers in Low-Dimensional Perovskites"</i>
PP 1.064	Ali Zeeshan <i>"Control of Particle Size, Particle Size Distribution and Morphology of Silica Coated Iron Oxide Nanoparticles"</i>
PP 1.065	Kata Dorbic <i>"Synthesis of polymeric particles with multiple lobes"</i>
PP 1.066	Frank D. Bradley <i>"Functional Janus particles from complex emulsions: simple design of nano-to-microscale precision objects"</i>
PP 1.067	Matija Tomsic <i>"Structural study of non-graphitizable carbons from corn cobs for negative sodium ion battery electrodes"</i>
PP 1.068	Matija Tomsic <i>"Dispersions of Delaminated Double Hydroxides in Ionic Liquids"</i>
PP 1.069	Luca Stefanuto <i>"Design and synthesis of stimuli-responsive polymers for wastewater treatment"</i>

PP 1.070	Bifen Chen <i>"Correlation between physicochemical and emulsion-stabilizing properties of insoluble soybean fiber obtained by different ultrasound-assisted autoclaving alkaline treatments"</i>
PP 1.071	Erzsebet Illes <i>"Graphite oxide/nickel ferrite nanocomposites for magnetic hyperthermia"</i>
PP 1.072	Edit Csapo <i>"Noble metal nanoclusters with structure-tunable fluorescent properties: synthesis, characterization and biomedical utilizations"</i>
PP 1.073	Konstantia Nathanael <i>"Design of experiments to model the size of AgNPs in microfluidic synthesis"</i>
PP 1.074	Max Schelling <i>"Inducing defects in colloidal crystals"</i>
PP 1.075	Lu Peng <i>"Size-Controlled Co-Fe Alloy Wrapped on Nitrogen-Doped Graphitic Carbons as Highly-Selective Catalysts for CO₂ Hydrogenation"</i>
PP 1.076	Erzsebet Illes <i>"Interplay between magnetic properties and colloidal stabilization in bio-ferrofluids"</i>
PP 1.077	Martin Pantov <i>"Cold-bursting and double emulsion formation in mixed triglyceride particles undergoing polymorphic phase transitions"</i>
PP 1.078	Loránd Románszki <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 1.079	Shikeale Harris <i>"Casein micelles under osmotic stress"</i>
PP 1.080	Yulin Hu <i>"The usefulness of phosphatidylcholine-depleted (PC-depleted) lecithin as low-HLB emulsifier to produce W1/O/W2 double emulsions"</i>
PP 1.081	Thanasis Athanasiou <i>"Probing in-cage particle dynamics in concentrated suspensions and glasses of hard spheres particles with HF rheometry"</i>
PP 1.082	Melis Yetkin <i>"Supraparticles: Aggregation of colloids in evaporating dispersion drops"</i>
PP 1.083	Caroline Hadjiefstathiou <i>"Surface tension decrease with dispersed lignin colloids and their potential capacity as emulsifiers"</i>

PP 1.084	Emmanouil Vereroudakis <i>"Crystallizing depletion colloidal gels by shear"</i>
PP 1.085	Alexis Darras <i>"Physical mechanism of erythrocytes sedimentation rate"</i>
PP 1.086	Chan Derek <i>"Block Copolymer Nanoparticles are Effective Dispersants for Micrometer-Sized Organic Crystalline Particles"</i>
PP 1.087	Ashley Mungroo <i>"Binary mixture of hard and soft colloids with tuneable interactions"</i>
PP 1.088	Dimitri Radajewski <i>"Microfluidic osmotic compression of charge-stabilized colloidal dispersions: Equations of state and collective diffusion coefficients"</i>
PP 1.089	Saket Kumar <i>"Rheology and structural characterization of mild solvolytically fractionated lignin dispersed in alcohols"</i>
PP 1.090	Dmitrii Sychev <i>"Work of adhesion in soft bodies contact scenario"</i>
PP 1.091	Robert Ondok <i>"Tailoring water resistance properties of environmentally friendly water-based wood adhesive"</i>
PP 1.092	Tamas Oncsik <i>"Designing highly water resistant PVAc wood adhesives using cellulose-based fibrous materials"</i>
PP 1.093	Gabriele D'Oria <i>"Evidence and modelling of physical ageing in fluid gels"</i>
PP 1.094	Gabriele D'Oria <i>"Abrasion phenomenon in low acyl gellan gum fluid gels"</i>
PP 1.095	Valentín García-Caballero <i>"Long-term stability and loading of DPPC-based liposomes"</i>
PP 1.096	Iván Navarro-Arrebola <i>"Properties of interfacial layer in surfactant-laden concentrate titania nanoparticle dispersions"</i>
PP 1.097	Mohammad Arif Kamal <i>"Translational and rotational diffusion coefficients of hematite-silica core-shell colloidal ellipsoids and the effect of polydispersity"</i>
PP 1.098	Laurent Vaughan <i>"Epitaxial Growth of Binary Colloidal Systems"</i>
PP 1.099	Simon Becker <i>"Interparticle forces in presence of polycarboxylate ethers under basic conditions"</i>

PP 1.100	Kevin Graeff <i>"Interactions and Structure of Foam Films stabilized by Proteins and Microgels"</i>
PP 1.101	Rui Cheng <i>"Refractive-index and density matching for a model colloidal system to capture gel collapse"</i>
PP 1.102	Veronika Yavrukova <i>"Rheology of mixed solutions of sulfonated methyl esters and betaine in relation to the growth of giant micelles"</i>
PP 1.103	Mohamad Danial Shafiq <i>"Competitive effect of oil viscosity and interparticle interactions between carbon particles using polymer dispersant"</i>
PP 1.104	Fajun Zhang <i>"Dynamics of melting chocolate studied by X-ray photon correlation spectroscopy (XPCS)"</i>
PP 1.105	Tobias Knapp <i>"Colloidal Stability of Apolar Nanoparticles in Solvent Mixtures and Solutions of Intercalants"</i>
PP 1.106	Simone Amatori <i>"Exploring anisotropic growth of hydrophilic gold nanorods and their self-assembly in view of biotechnological applications"</i>
PP 1.107	Luciene Lima <i>"Effect of alkylphenol ethoxylated non-ionic surfactants free on the colloidal behavior of acrylic dispersions"</i>
PP 1.108	Shalaka Bhargava <i>"Evaporation driven instability in tear film :3D dynamics"</i>
PP 1.109	Ralitsa Uzunova <i>"Kinetics of transfer of volatile amphiphiles from vapors to surfactant solution drops"</i>
PP 1.110	Evangelia Vasilaki <i>"Anisotropic rod-like and spherical particles with temperature driven tunable interactions"</i>
PP 1.111	Xuan Li <i>"Brownian suspension velocity valet simulation"</i>
PP 1.112	Teng Wang <i>"Effect of dilution agents, fat globules and temperature on the size measurement of casein micelles via dynamic light scattering"</i>
PP 1.113	Isabelle Simonsson <i>"Novel investigations on the ion-specific effects on sulfate-functionalized cellulose nanocrystals"</i>
PP 1.114	Minas Stylianakis <i>"The Effect of rGO Addition on the Tribological Performance of a Commercialized Fully Synthetic Engine Oil"</i>
PP 1.115	Paula Araujo Gomes <i>"Microalgae as soft permeable particles"</i>

Theory and Multi-scale Modeling of Colloids and Interfaces

PP 1.116	Apolline Faidherbe <i>"Drying of a thin film of complex fluid under an evaporation mask"</i>
PP 1.117	Gunwoo Park <i>"Modeling Ultrafiltration of Interacting Brownian Particles"</i>
PP 1.118	Konstantia Nathanael <i>"Design of experiments to model the size of AgNPs in microfluidic synthesis"</i>
PP 1.119	Konstantia Nathanael <i>"PBM-CFD simulations of microfluidic synthesis of AgNPs"</i>
PP 1.120	Sourov Chandra <i>"Giant third-harmonic generation and quantum coherent effects in ultrasmall Au₆ nanoclusters"</i>
PP 1.121	Vittoria Sposini <i>"Exploring the glassy behaviour of the Gaussian Core Model by random pinning"</i>
PP 1.122	Justinas Šlepavičius <i>"Are Colloidal Trimers Governed by Fickian yet non-Gaussian Dynamics?"</i>
PP 1.123	Justinas Šlepavičius <i>"Predicting Self-Diffusion Coefficients of Mie Spheres Using Machine Learning"</i>
PP 1.124	Matteo Chamchoum <i>"A Computational Model for Interpolyelectrolyte Complexes"</i>
PP 1.125	Yashraj Wani <i>"Self-diffusion and sedimentation of shape-anisotropic colloids"</i>
PP 1.126	Carlo Andrea De Filippo <i>"On the role of polydispersity on the phase diagram of low-density colloidal solutions"</i>
PP 1.127	Margaritis Kostoglou <i>"A Model for Bubble-Particle Collision Frequency in a Turbulent Flow Field"</i>
PP 1.128	Christian Strauch <i>"Ionization Equilibria and Swelling Behaviour of Weak Polyampholyte Core-shell Microgels - A Monte Carlo Study"</i>
PP 1.129	Vagelis Harmandaris <i>"Polymers at Interphases via Simulations Across Scales: from Atoms to Macroscopic Properties"</i>
PP 1.130	Nikolaos Patsalidis <i>"Modelling of Polymer/Alumina Interfaces via Ab-initio Calculations and Machine-learned Molecular Dynamics Simulations"</i>

PP 1.131	Jack Eatson <i>"Capillary assembly of anisotropic particles at cylindrical fluid interfaces"</i>
PP 1.132	Pedro A. Sánchez <i>"Competing dynamics at play: self-assembly of colloidal particles with mobile DNA linkers"</i>
PP 1.133	Anjaiah Nalaparaju <i>"In silico investigation of colloidal particle deposition and surface affinity"</i>
PP 1.134	Roni Kroll <i>"Liquid nucleation around charged particles in the vapor phase"</i>

Self-Assembly and Supramolecular Structures

PP 1.135	Pawel Szabelski <i>"From wires to fractals: modeling of the metal-organic intermediates in surface-assisted Ullmann coupling of halogenated acenes"</i>
PP 1.136	Shayan Vazirieh Lenjani <i>"The dominant role of electrostatic forces in supracolloidal self-assembly of polymer-functionalized Gold nanorods"</i>
PP 1.137	Gal Yosefi <i>"Growing on membranes: next generation cell culture scaffolds - the role of the polymers"</i>
PP 1.138	Belhssen Hleli <i>"Associative behavior of dodecaborate conjugates with alkyl tails"</i>
PP 1.139	Žiga Medoš <i>"Formation of Metallocarborane Pentamers in Water"</i>
PP 1.140	Hongxiao Xiang <i>"Linking Perylene Diimide to Nanoclays: Solvent-Induced Aggregation and Energy Transfer"</i>
PP 1.141	Rodolfo Esposito <i>"Biosurfactants in green industrial formulations: a study on Rhamnolipid-SLES mixture."</i>
PP 1.142	Lauren Matthews <i>"Elucidation of self-assembly pathways in dilute catanionic surfactant solutions using TR-SAXS"</i>
PP 1.143	Giulia Allegri <i>"Specs of pecs"</i>
PP 1.144	Alberto Scacchi <i>"Polymer length dependency of liquid-liquid phase separation and assembly of silk-like proteins"</i>

PP 1.145	Mina Fazilati <i>"Phase transitions in a binary system cetyl alcohol - stearyl alcohol"</i>
PP 1.146	Cassia Lux <i>"From cellulose model surfaces to elastic papers"</i>
PP 1.147	Sichao Li <i>"Tuneable interphase transitions in ionic liquids/carrier systems: voltage control"</i>
PP 1.148	Werner Kunz <i>"A New Generation of Liquid Ionic Surfactants"</i>
PP 1.149	Zlatina Mitrinova <i>"Interplay between cosurfactant and electrolyte for the rheological behavior of mixed surfactant systems"</i>
PP 1.150	Iliaria Clemente <i>"Structure, molecular packing and interactions in compartmentalized algal-based nanocarriers: a spectroscopy and calorimetry study"</i>
PP 1.151	Tomas Omasta <i>"Enhanced Solubilization of Fragrances in Solutions of Sugar Surfactants in Natural Deep Eutectic Solvents (NADES)"</i>
PP 1.152	Ellen Brunzell <i>"Aggregation behaviour of therapeutic peptides – A scattering approach"</i>
PP 1.153	Pavel Matejcek <i>"Closo-dodecaborate(2-) as building block for preparation of diverse nanostructures of controlled shape and properties"</i>
PP 1.154	Larissa dos Santos Silva Araújo <i>"Directed assembly of surfactant-cyclodextrin building blocks in solution"</i>
PP 1.155	Gabriel Fusco Schon <i>"Dynamics of sessile drops on vibrating superhydrophobic and para-hydrophobic surfaces"</i>
PP 1.156	Jan Zawala <i>"Experimental and theoretical study of adsorption of amino acid surfactants at air/water interface"</i>
PP 1.157	Marius Schöttle <i>"Macro- and mesoscopic gradients in self-assembled colloidal systems"</i>
PP 1.158	Svetoslav Anachkov <i>"Salt-response of anionic/zwitterionic mixtures: Rheological scaling rules"</i>
PP 1.159	Chandra Shekhar <i>"Droplet-Bijel-Droplet Transition in Aqueous Two-Phase Systems Stabilized by Oppositely Charged Nanoparticles"</i>
PP 1.160	Irene Russo Krauss <i>"Chemo-enzymatically produced rhamnoxylosurfactants as new biosurfactants"</i>

PP 1.161	Jiabao Zheng <i>"Heteroprotein complex coacervation: β-conglycinin and lysozyme"</i>
PP 1.162	Lidiya Dimitrova <i>"Effects of salt and fragrances on formulation rheology"</i>
PP 1.163	Pamela Petrova <i>"Rheology of anionic/zwitterionic mixtures: Co-ion effects"</i>
PP 1.164	Konstantinos Karatasos <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 1.165	Robert F. Schmidt <i>"Phase behaviour of a biocompatible microemulsion based on tween 20, ethylhexylglycerin and isopropyl palmitate"</i>
PP 1.166	Qing Gao <i>"Complexation between starch and single/binary aroma compounds: Formation and structure"</i>
PP 1.167	Ruslan Kashapov <i>"Amphiphilic Calix[4]resorcinol-based Nanoparticles: Synthesis, Self-assembly and Biological Properties"</i>
PP 1.168	Ruslan Kashapov <i>"Supramolecular Self-Assembly of Metallosurfactant and Porphyrin as a Drug Nanocontainer Design"</i>
PP 1.169	Nadezda Kashapova <i>"Tuning of Nanoparticles Based on Amphiphilic Calix[4]resorcinol and Octenidine for Enhanced Anticancer Activity and Selectivity"</i>
PP 1.170	Irina Portnaya <i>"Application of Isothermal Titration Calorimetry for Studying Drugs Encapsulation in Beta-casein Micelles"</i>
PP 1.171	Hisham Idriss <i>"Electronic surfactants for use in soap film-based sensors and devices"</i>
PP 1.172	Clémence Le Cœur <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 1.173	Zahra Peimanifard <i>"Icosahedral supraparticles from titania-silica core-shell colloids"</i>
PP 1.174	Eleni Pavlopoulou <i>"The Micellization of Well-defined Single Graft Copolymers in Block Copolymer/Homopolymer Blends"</i>
PP 1.175	Pooja Sahu <i>"Self-assembly of asymmetric poly(styrene)-block-poly(methacrylic acid) polyelectrolyte-Neutral diblock copolymer in aqueous solution: A MD simulation study"</i>

PP 1.176	Juan J. Giner-Casares <i>"Interfacial Supramolecular Assembly at Air/Liquid Interfaces"</i>
PP 1.177	Jose Merin <i>"Evaporative self-assembly of soft colloidal monolayers: The role of particle softness"</i>
PP 1.178	Daniel Morris <i>"How crucial is structure? Understanding the role of dynamics and organization for ionic liquid solvent effects on an SN2 process"</i>
PP 1.179	Viara Yordanova <i>"Rheology of surfactant solutions: Effect of the counterion and surfactants head groups"</i>

Colloidal Systems in External Fields

PP 1.180	Sriram Krishnamurthy <i>"Kinetics of aggregation of amyloid β under different shearing conditions: Experimental and modelling analyses"</i>	
PP 1.181	Carlo Rigoni <i>"Electroferrofluids with non equilibrium voltage-controlled magnetism, diffuse interfaces and patterns"</i>	
PP 1.182	Marcel Herber <i>"Bubble printing of MXenes for patterning conductive and plasmonic nanostructures"</i>	
PP 1.183	Silvia Ahualli <i>"Electrokinetic and dielectric response of a concentrated salt-free colloid. Different approaches to counterion finite size effects"</i>	
PP 1.184	Anjali Sharma <i>"Generation of local diffusioosmotic flow by light responsive microgels"</i>	
PP 1.185	Kazuya Okada <i>"Aggregation phenomena of magnetic cubic particles in an alternating magnetic field (Brownian dynamics simulations)"</i>	
PP 1.186	Emmanouil Mathioudakis <i>"A rheo-confocal study of the rheological and structural properties of magnetorheological fluids"</i>	
PP 1.187	Rogier Delporte <i>"Analysing electrophoretic deposition using transient current measurements"</i>	
PP 1.188	Jérôme J. Crassous <i>"State diagram of soft dipolar ellipsoids"</i>	
PP 1.189	Smaragda-Maria Argyri <i>"NMR-Lev: A tool for contactless NMR spectroscopy"</i>	

PP 1.190	Frances Brown <i>"Comparison of the frictional properties of plant and dairy proteins"</i>
PP 1.191	Pavlik Lettinga <i>"The inhomogeneous rheological response of nematic platelets studied by spatial resolved Rheo-SAXS and XPCS"</i>
PP 1.192	Lea Fischer <i>"Rheological investigations of thermoresponsive core-shell nanoparticles in suspension at the colloidal glass transition"</i>
PP 1.193	Romain Bordes <i>"Design and optimization of single-node single axis levitators for contactless experiments in air"</i>
PP 1.194	Akira Satoh <i>"Regime change in the aggregate structure of magnetic cubic particles in a quasi-2D suspension system (multi-particle collision dynamics simulations)"</i>
PP 1.195	Norma Palmero-Cruz Caridad <i>"Hydrodynamic correlations of trapped particles in optical tweezers"</i>

Plenary Lectures and Keynote Speakers for Tuesday 6th 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 Junbai Li | Chinese Academy of Sciences, China

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

Tuesday, 6th September 2022

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

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

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

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

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

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

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

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

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

PP 2.038	Xueying Guo <i>"Mimetic bacterial membranes challenged by multivalent cations and antimicrobial peptides: Nanostructural insights"</i>	
PP 2.039	Francesca Ravera <i>"Microgravity Study of Emulsions Destabilisation by Diffusing Wave Spectroscopy within the EDDI Project"</i>	
PP 2.040	Ali Doost Sedaghat <i>"Antioxidant nanocarriers for stabilization of algae oil emulsions rich in omega-3 fatty acids"</i>	
PP 2.041	Roi Bar-On <i>"Theory for Heterogeneous Water/Oil Separation"</i>	
PP 2.042	Déborah Feller <i>"Non-close packed Bravais lattices via self-assembly of core-shell microgels"</i>	
PP 2.043	Chunxia Su <i>"Sequential adsorption of polyglycerol polyricinoleate and protein at the oil-water interface: An interfacial rheology study"</i>	
PP 2.044	Michel Grisel <i>"Stabilization of oil-in-water emulsions by amphiphilic xanthan synthesized under green conditions"</i>	
PP 2.045	Suzanne Calhoun <i>"Miscible antifoams: Leveraging evaporative solutocapillary flows for a novel antifoam mechanism"</i>	
PP 2.046	Miriam Grava <i>"pH-dependent charge and structural properties of transfection lipid layers for RNA delivery"</i>	
PP 2.047	Margarethe Dahl <i>"Confinement Effects on the Structure of Bicontinuous Microemulsions inside Porous Materials"</i>	
PP 2.048	Magdalena Wlodek <i>"Membrane fusion mediated by hydrophobic nanoparticles"</i>	
PP 2.049	Saul Hunter <i>"Effect of salt on the formation and stability of water-in-oil Pickering nanoemulsions stabilized by diblock copolymer nanoparticles"</i>	
PP 2.050	Anshu Thapa <i>"Building stable structures of ethanol-water droplets at the oil-water interface"</i>	
PP 2.051	Poornima Budime Santhosh <i>"Thermal and structural analysis of zwitterionic SOPC lipid membranes entrapped with gold nanoparticles"</i>	
PP 2.052	Angeliki P. Chondrou <i>"Effect of oscillating piston characteristics on small volume emulsion generation"</i>	
PP 2.053	Mattéo Clerget <i>"Destabilization of a microfluidic air thread through Marangoni effects"</i>	

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

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

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

Colloids in Biomaterials and Biomedical Applications

PP 2.092	Claudia Marconi <i>"Innovative antimicrobials from facial steroidal surfactants"</i>	
PP 2.093	Yixuan Yan <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	María Martínez-Negro <i>"Poly(ethylene glycol) as surfactant reduces conformational change of adsorbed proteins on nanoparticles."</i>	
PP 2.095	Michalina Zaborowska <i>"Inhibition effect of statins on HMG-CoA reductase reconstituted in model lipid rafts"</i>	
PP 2.096	Marek Kindermann <i>"Topical siRNA therapy for diabetic-like wound healing using copolymer-grafted nanodiamonds"</i>	
PP 2.097	Foteini Gkartziou <i>"Co-treatment with Daptomycin and Bacteriophage K liposomes realizes superior in vitro activity compared to free actives."</i>	
PP 2.098	Foteini Gkartziou <i>"The effect of Liposome Preparation Method on Physicochemical Properties and Antimicrobial Activity of Liposomal Moxifloxacin."</i>	

PP 2.099	Martyna Krajewska <i>"Interactions between molecules of oleic and oleanolic acid in the pharmaceutical formulations - physicochemical perspective"</i>
PP 2.100	Souhaila Nider <i>"Rheological characterization of camphene-based capillary suspensions for bone implants fabrication"</i>
PP 2.101	Athanassios Missirlis <i>"Freeze-dried liposomal formulations loaded with Cefuroxime"</i>
PP 2.102	Evangelos Natsaridis <i>"Moxifloxacin liposomes prepared by a novel active-loading-microfluidic-mixing method demonstrate increased loading and sustained release kinetics."</i>
PP 2.103	Monika Wasilewska <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	Matthias Barz <i>"Nanomedicine based on Polypept(o)ides"</i>
PP 2.105	Daniel J. Williams <i>"Understanding the toxicity of drug-loaded metal-shell microcapsules."</i>
PP 2.106	Sulalit Bandyopadhyay <i>"Scalable Production of Silica-coated Magnetic Nanobeads and their Applications in Viral Diagnostics"</i>
PP 2.107	Helena Mateos <i>"Surfactant interactions with feline Coronavirus"</i>
PP 2.108	Viktor Eriksson <i>"Encapsulation and Sustained Release of Octenidine Dihydrochloride from PLGA Microcapsules"</i>
PP 2.109	Samuel Watts <i>"In situ Characterization of Viruses Colloidal Systems for Design of Antiviral Solutions"</i>
PP 2.110	Ioanna Chazapi <i>"Specific interactions of ionic boron clusters with proteins."</i>
PP 2.111	Simona Káčerová <i>"Bioactive Films Based on Chitosan and Polypyrrole"</i>
PP 2.112	Martina Martínková <i>"Conducting film prepared in colloidal dispersion mode, the efficient way of surface functionalization"</i>
PP 2.113	Leona Mahelová <i>"Cytocompatibility of Polypyrrole Thin Layers Synthesized In Situ with Polyurethane Electrospun Mats"</i>
PP 2.114	Inga Litzen <i>"Reactive microgels as platform for design of complex cell-culture substrates using microcontact-printing and post-modification"</i>

PP 2.115	Maria Psarrou <i>"Polysaccharide-functionalized iron oxide nanoparticles for mRNA delivery"</i>
PP 2.116	Eliézer Jäger <i>"Tumour microenvironment-responsive polymer-based nanomedicines for therapeutic applications in cancer"</i>
PP 2.117	Theodore Manouras <i>"Novel drug delivery system based on multifunctional PEO-b-polyacetal diblock copolymers nanoparticles"</i>
PP 2.118	Alessandro Jäger <i>"pH-responsive giant polymer vesicles for biomedical applications"</i>
PP 2.119	Karolina Krautforst <i>"Liquid crystalline nanoparticles for encapsulation of pharmaceutically active compounds from marine algae"</i>
PP 2.120	Pietro Milesi <i>"Superfluorinated nanoprobe for T Lymphocytes tracking by 19F Magnetic Resonance Imaging"</i>
PP 2.121	Sergio Murgia <i>"Liquid Crystalline Nanoparticles for Photodynamic Therapy"</i>
PP 2.122	Lenka Loukotová <i>"Gold Nanoparticles Stabilized by Polydiacetylenes"</i>
PP 2.123	Leon Klug <i>"Polyelectrolyte polymer networks for the uptake of charged short-chained polyamides"</i>
PP 2.124	Sonya Tsibranska <i>"In vitro study of triglyceride lipolysis: cholesterol lowering by phytosterols and Quillaja saponaria extract"</i>
PP 2.125	Raouf Nusseir <i>"A comparison between Lutrol F-127 and β-casein micelles using Calorimetry and Cryo-EM"</i>
PP 2.126	Jennifer Gilbert <i>"Lipid nanoparticles using cationic ionisable lipids: Effect of cargo on structure"</i>
PP 2.127	Klaudia Kvaková <i>"Fluorescent Nanodiamonds Modified with Biocompatible Polymers"</i>
PP 2.128	Martina Havlíková <i>"Study of Interaction between Cationic Ion Pair Amphiphile Vesicles and Hyaluronan"</i>
PP 2.129	Adam Jugl <i>"Physicochemical Study of Interactions between Catanionic Vesicles and Hyaluronan"</i>
PP 2.130	Noemi Gallucci <i>"Aptamer biosensor for LPS using F-doped ZnO nanoparticles"</i>

PP 2.131	Vahid Motlaq <i>"Spontaneous vesicle formation in mixture of phospholipid and amphiphilic drugs"</i>
PP 2.132	Ecaterina Gore <i>"Techno-functional properties of lecithin in the context of cosmetic formulation"</i>
PP 2.133	Patrycja Gnacek <i>"A physicochemical and spectroscopic characterization of novel erlotinib conjugates with platinum nanoparticles"</i>
PP 2.134	Vladimir Proks <i>"Effect of surfactants on biocompatible and biodegradable poly(N5-2-hydroxypropyl-L-glutamine)-based nanogel preparation and in vivo imaging of nanogel biodistribution"</i>
PP 2.135	Eduardo Marques <i>"Photochromic surfactant/monoolein nanovectors for the smart delivery of nucleic acids"</i>

Advanced colloid Science for Applications and Products

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

PP 2.146	Anna Musyanovych <i>"Polymeric Capsules with VOCs for Controlled Emission"</i>	
PP 2.147	Mihail Georgiev <i>"Phase separation of saturated micellar network and its potential applications for nanoemulsification"</i>	
PP 2.148	Filippo Agresti <i>"PMMA nano-encapsulated phase change material colloids for heat management applications"</i>	
PP 2.149	Davide Schirone <i>"Rational formulation of a more sustainable household cleaning product"</i>	
PP 2.150	Burak Akdeniz <i>"Local Zeta Potential correction in Dead-end Pore"</i>	
PP2.151	Tatiana Slavova <i>"Enhanced solubility of methyl ester sulfonates below their Krafft points in the presence of nonionic cosurfactants"</i>	
PP 2.152	Martina Klučáková <i>"Diffusion of pharmaceuticals in agarose hydrogels enriched by humic acids"</i>	
PP 2.153	Lucie Delforce <i>"Using the HLDN equation to design direct and reverse emulsions stabilized by highly effective dodecylglycerylether surfactant"</i>	
PP 2.154	Valentin Bardoula <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	Sulalit Bandyopadhyay <i>"Scalable Production of Silica-coated Magnetic Nanobeads and their Applications in Viral Diagnostics"</i>	
PP 2.156	Anwesha Sarkar <i>"Microgels as lubricants and rheology modifiers"</i>	
PP 2.157	Andrea Lassenberger <i>"Effect of alkali activators on pore size of geopolymers – A comparative study"</i>	

Composite Materials and Nanostructures

PP 2.158	Alesya Mikhailovskaya <i>"Reinforced hydrogels: polymer cross-linking by emulsion droplets"</i>
PP 2.159	Diane Rébiscoul <i>"Thin layer of organosilane having specific functionality for the understanding of rare earth extraction"</i>
PP 2.160	Sanjay Jatav <i>"Templating the Growth of Bi₂MoO₆ with Clay-like Materials toward Sorbent Photocatalytic Composites"</i>

PP 2.161	Magdalena Zięzio <i>"Synthesis and application of CoFe₂O₄/TiO₂-doped activated carbon-based nanophotocatalysts"</i>	
PP 2.162	Magdalena Zięzio <i>"Pyrolysis atmosphere impact on the textural properties and the surface chemistry of activated carbons"</i>	
PP 2.163	Irene López-Sicilia <i>"Study of the chiro-optical and electronic properties of a solid-state o-OPE at the air-water interface"</i>	
PP 2.164	Katarina Jerin <i>"Influence of ionic strength and anion type on the properties of chitosan-carboxymethylcellulose nanofilm"</i>	
PP 2.165	Meriem Saadli <i>"Hybrid soft micro-actuators with tunable response to the magnetic field"</i>	
PP 2.166	Mathieu Nespoulous <i>"New porous material design via emulsion freezing"</i>	
PP 2.167	Alicja Bosacka <i>"Kaolin-based composites structural, morphological, porous, thermal, and adsorption characteristics"</i>	
PP 2.168	Alicja Bosacka <i>"Physicochemical and adsorption properties of polymer microspheres as materials for the removal of organic compounds"</i>	
PP 2.169	Marta Kalbarczyk <i>"The synthesis and adsorption studies of biphasic calcium phosphate material originated from avian eggshells"</i>	
PP 2.170	Karolina Pietrzak <i>"Chloride SCISEs based on a nanocomposite of polyaniline nanofibers and multiwalled carbon nanotubes (PANINFs-Cl:MWCNTs)"</i>	
PP 2.171	Oleta Norvilaite <i>"Synthesis of Micron-Sized Silica-Coated PMMA Latex Particles"</i>	
PP 2.172	Karolina Pietrzak <i>"Testing water samples for the content of nitrate ions using ion-selective electrodes with solid contact"</i>	
PP 2.173	Markus Ahlskog <i>"Conducting thin films from xylan-dispersed carbon nanotubes"</i>	
PP 2.174	Gal Shachar-Michaely <i>"Mixed dimensionality: Highly robust and multifunctional carbon-based composites"</i>	
PP 2.175	Selim Basaran <i>"Plasmonic Stimulation of Gold Nanorods for the Control of Living Materials"</i>	

PP 2.176	Anna Pajor-Świerzy <i>"Nanocomposite pastes based on metallic nanoparticles for fabrication of conductive coatings"</i>
PP 2.177	Evangelia Giannakaki <i>"Improving the Self-healing Properties of Polyurethanes by Incorporation of Reduced Graphene Oxide"</i>
PP 2.178	Goekalp Engin Akinoglu <i>"Quasi-Babinet complementary plasmonic templates: Optical properties and applications"</i>
PP 2.179	Ioannis Karnis <i>"Altering the Interfacial Interactions in Polymer / Graphene Oxide Nanocomposites"</i>
PP 2.180	Ioannis Sampson <i>"The interior amorphous architecture of proteinaceous adhesive marine mussel plaques"</i>
PP 2.181	Kiriaki Chrissopoulou <i>"Unusual Rheological Response in PEO / SiO₂ nanocomposites"</i>
PP 2.182	Ágota Deák <i>"Antimicrobial effect on photoreactive nanocomposite thin films"</i>
PP 2.183	Marta Kalbarczyk <i>"The synthesis of zinc-doped multiphasic calcium phosphates"</i>
PP 2.184	Manuel Cano <i>"Nanostructured composite materials as electrocatalysts for electrochemical energy-conversion devices"</i>
PP 2.185	Edit Csapó <i>"Noble metal nanoclusters with structure-tunable fluorescent properties: synthesis, characterization and biomedical utilizations"</i>
PP 2.186	Eduardo Marques <i>"Colloid assembly of (GnP@MoS₂)/MWNT nanocomposites and their electrocatalytic activity for energy-related oxygen reactions"</i>

Chinese-European Symposium	
PP 2.187	Shuai Li <i>"Enhanced condensation by rapid droplet coalescence of binary liquids on PDMS brushes"</i>

Plenary Lectures and Keynote Speakers for Wednesday 7th 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>



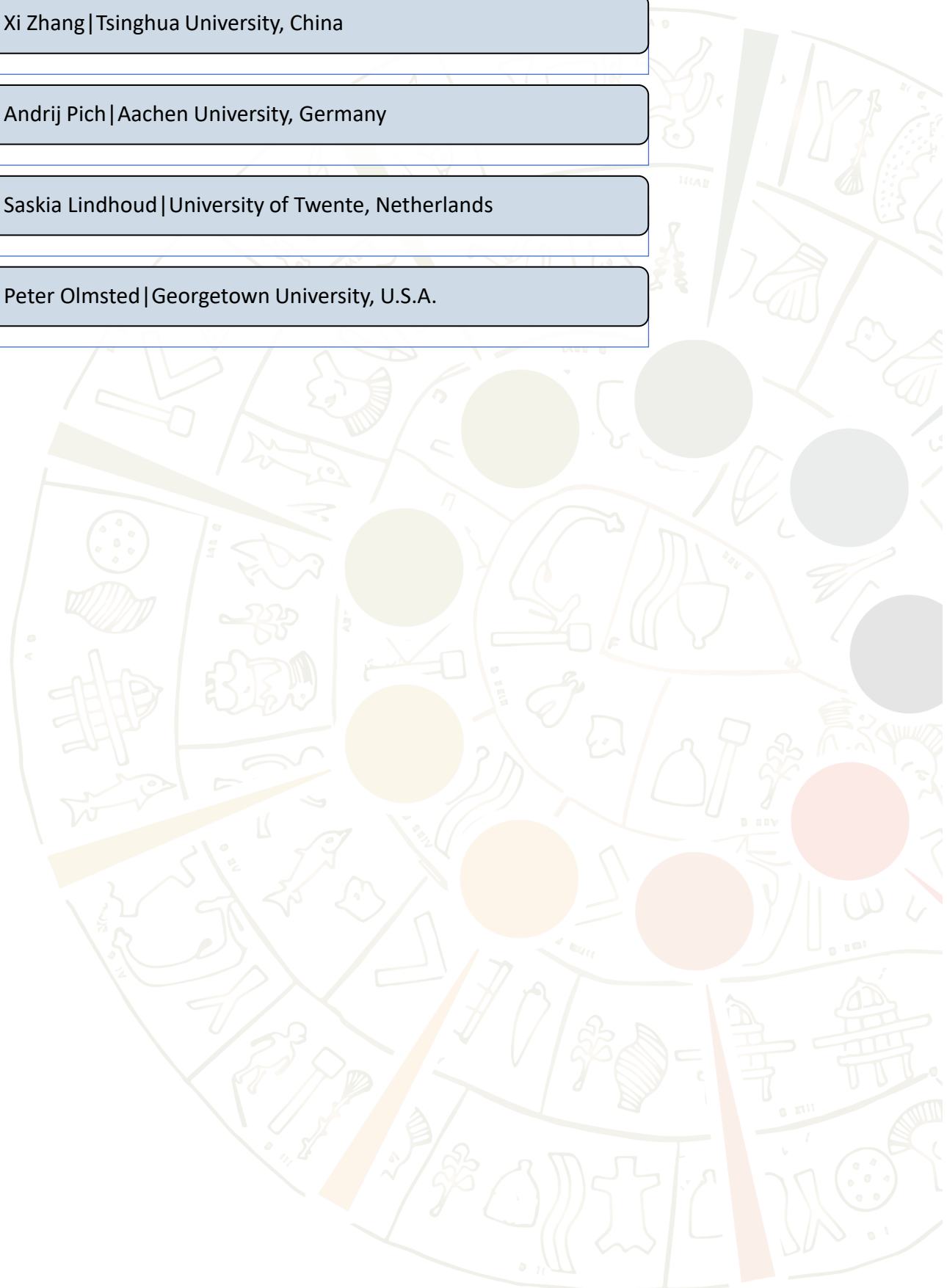
Keynote Speakers

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, 7th September 2022

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

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

Plenary Lectures and Keynote Speakers for Thursday 8th 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 Roland Kádár, | Chalmers University of Technology, Sweden

K.N. 2.2 Pierre Haas | MPIPKS, Germany

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

K.N. 2.4 Krassimir Velikov | Unilever, Netherlands

Thursday, 8th September 2022

08:30-09:15	Imperial Hall Room 1 (Hybrid)			
	Plenary Talk John F. Brady, Caltech <i>"The Mechanics of Active Matter"</i> Chair: Gerald Fuller, Stanford University			
09:15-09:45	Coffee Break			
09:45-11:55	Imperial Hall Room 1 (Hybrid)	Imperial Hall Room 2	Imperial Hall Room 3	Imperial Hall Room 4
	Colloids at Interfaces, Membranes and Biointerfaces, Emulsions and Foams	Colloids in Biomaterials and Biomedical Applications	Chinese-European Symposium	Composite Materials and Nanostructures
	Chair Marcel Rey, University of Gothenburg	Chair Gerardo Palazzo, University of Bari	Chair Xi Zhang, Tsinghua University	Chair Theodora Krasia-Christoforou, University of Cyprus
09:45	KN 1.2: Martin Haase, Utrecht University <i>"Separating chemicals in nanostructured, fluid-bicontinuous gels"</i>	KN 1.3: Moshe Gottlieb, Ben Gurion University <i>"Peptide decorated silica nanoparticles as phosphate binders for the treatment of Hyperphosphatemia"</i>	KN 1.1: Jianying He, Norwegian University of Science and Technology <i>"Lowering ice and gas hydrate adhesion"</i>	KN 1.4: Markus Retsch, University of Bayreuth <i>"Thermal transport in self-assembled materials: From high anisotropy to high temperatures"</i>
10:15	OP: Job Thijssen, The University of Edinburgh <i>"Bicontinuous soft solids with a gradient in channel size"</i>	OP: Vasileios Koutsos, The University of Edinburgh <i>"Microbubble agents for biomedical applications: Soft Nano/Micromechanics at the Interface"</i>	OP: Tommy Nylander, Lund University <i>"Lipid assembly morphological changes induced by changes of the solution conditions"</i>	OP: Gerardino D'Errico, Università Federico II <i>"Bio-inspired phenolic polymers in composite materials: from the nanostructure to the multifunctionality"</i>
10:35	OP: Chandra Shekhar, Indian Institute of Technology <i>"Rheological characterization of aqueous two-phase emulgels"</i>	OP: Peter Schurtenberger, Lund University <i>"Charge effects on stability and self-assembly of antibodies in solutions – a colloid approach"</i>	OP: Zihan Tan, Forschungszentrum Jülich <i>"An efficient multiparticle collision dynamics approach to membrane protein diffusion"</i>	OP: Marco Lattuada, University of Fribourg <i>"Preparation of structured biomimetic composite materials through magnetic control of sol-gel phase transitions"</i>
10:55	OP: Cheng Cheng, University of Leeds <i>"Understanding the early growth of gold films to provide thin impermeable metal films onto emulsions"</i>	OP: Javier Reguera, BCMATERIALS <i>"Morphological control in multifunctional iron oxide: gold nanoparticles for theranostics"</i>	OP: Liu Jie, Institute of Chemistry Chinese Academy of Sciences <i>"Durable liquid-repellent poly(dimethylsiloxane) coating with anti-fouling and anti-icing performances"</i>	OP: Anastasia Rissanou, 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	OP: Yanyan Liu, Delft University of Technology <i>"Diffusion across particle-laden interfaces in Pickering emulsions"</i>	OP: Valentina Nigro, ENEA <i>"Thin films of PNIPAM microgels for biocompatible nuclear track detectors in radiobiology"</i>	OP: Lan Yang, University College London <i>"Bumpy colloids: synthesis and their applications"</i>	OP: Loic Hilliou, University of Minho <i>"Dispersion mechanism of organoclay in a polymer nanocomposite studied by in-extruder rheo-optical characterization"</i>
11:35	OP: Raj Tadi, University of Edinburgh <i>"No silver bullet: compositional ripening in water-in-oil systems"</i>	OP: Dominik Braunmiller, RWTH Aachen <i>"Pre-programmed rod-shaped microgels to create multi-directional anisogels for 3D tissue engineering"</i>	OP: Xurui Zhang, Xi'an Jiaotong University <i>"Tunable mobility of bubble surface and inward flow in ethanol-NaCl aqueous solution"</i>	OP: Oren Regev, Ben-Gurion University of the Negev <i>"Compression-enhanced thermal conductivity of carbon loaded polymer composites"</i>
11:55-14:20	Lunch Break <i>Minoia Palace Main Restaurant</i>			
14:20-16:30	Imperial Hall Room 1 (Hybrid)	Imperial Hall Room 2	Imperial Hall Room 3	Imperial Hall Room 4
	Self-Assembly and Supramolecular Structures	Colloids at Interfaces, Membranes and Biointerfaces, Emulsions and Foams	Colloids in Biomaterials and Biomedical Applications	Advanced Colloid Science for Applications and Products
	Chair Lucio Isa, ETH Zurich	Chair Diana Cholakova, Sofia University	Chair Pierandrea Lo Nostro, University of Firenze	Chair Deniz Z. Gunes, KU Leuven
14:20	KN 2.1: Roland Kádár, Chalmers University of Technology <i>"How do birefringence patterns relate to shear stress nonlinearities in optically active dispersions?"</i>	KN 2.2: Pierre Haas, Max Planck Institute for the Physics of Complex Systems <i>"Theory of shape-shifting droplets"</i>	KN 2.3: Aristotelis Xenakis, National Hellenic Research Foundation <i>"Nanodispersions as effective vehicles for drug delivery"</i>	KN 2.4: Krassimir Velikov, UNILEVER <i>"Advanced structuring technologies at micro- and nano-scale for product functionality control"</i>
14:50	OP: Faniry Andriamiseza, CNRS-Université de Toulouse <i>"From wet spinning to 3D printing of carbohydrate supramolecular hydrogels"</i>	OP: Léa Delance, ESPCI Paris <i>"Uptake kinetics of spontaneously emulsified microdroplets at an air interface"</i>	OP: Davide Orsi, University of Parma <i>"Nanostructures for X-ray photodynamic therapy characterized by direct detection of singlet oxygen during radiotherapy"</i>	OP: Yanshen Zhu, KU Leuven <i>"Utilising inorganic perovskite quantum dots as a 2D high sensitivity optical heat flux meter"</i>
15:10	OP: Franziska Gröhn, University Erlangen-Nurnberg <i>"Self-Assembled nano-objects for solar energy conversion: Photocatalysis and switchability in aqueous solution"</i>	OP: Luigi Cristofolini, University of Parma <i>"Droplet dynamics and emulsion ageing in microgravity by DWS experiments onboard the International Spaces Station"</i>	OP: Fernando Giacomelli, Universidade Federal do ABC <i>"Engineering of pH-triggered nanoplateforms based on novel poly (2-methyl-2-oxazoline)-b-poly[2-(diisopropylamino) ethyl methacrylate] copolymers with tunable morphologies for biomedical applications"</i>	OP: Peter Mario Worsch, Anton Paar GMBH <i>"Rheo-SAXS study of lamellar-to-onion structure changes"</i>

15:30	OP: Chloé Guzelot, Laboratoire de Genie Chimique <i>"Development of cross-linked porous materials for membrane filtration: polymerization of microemulsions using non-polymerizable surfactants"</i>	OP: Eli Sloutskin, Bar-Ilan University <i>"Self-positioning of colloids and fluorophores on interfacially-frozen alkane-in-water liquid spheres"</i>	OP: Beatrice Lucia Bona, Politecnico di Milano <i>"Nanotherapeutics for cardiac pathologies: from NP development to their biological behaviour comprehension"</i>	OP: Rut Besseling, InProcess-LSP <i>"Spatially resolved dynamic light scattering: characterizing colloids over unprecedented ranges of turbidity and flow"</i>
15:50	OP: Maeva Lafitte Centre de Recherche Paul Pascal <i>"Self-assembled nano-colloidal resonators for advanced metasurfaces"</i>	OP: Suzanne Calhoun, Stanford University <i>"Miscible antifoams: Leveraging evaporative solutocapillary flows for a novel antifoam mechanism"</i>	OP: Pavel Švec, Institute of Organic Chemistry and Biochemistry Prague <i>"XMaNs - Universal lipid nanoparticles for nucleic acid delivery"</i>	OP: Marek Bekir, University of Potsdam <i>"Potential filtration technique for microparticles of equal size but different surface modifications"</i>
16:10	OP: Lucie Laporte, LAMS Sorbonne Université <i>"Influence of lead driers on oil paints' properties: Correlating supramolecular organization and rheology"</i>	OP: Julian Wailliez, Laboratoire de Physique des Solides <i>"Probing surfactant dynamics through interfacial surface tension using millifluidic elongational flow"</i>	OP: Gerardo Palazzo, University of Bari <i>"Unusual gold nanoparticle-antibody interactions"</i>	OP: Tamas Szabo, University of Szeged <i>"Langmuir-Blodgett and LbL deposition of graphene based conductive semitransparent coatings"</i>
16:30-17:00	Coffee Break			
17:00-19:00	Imperial Hall Room 1 (Hybrid)	Imperial Hall Room 2	Imperial Hall Room 3	Imperial Hall Room 4
	Self-Assembly and Supramolecular Structures	Design and Synthesis of Colloidal Systems and Nanoparticles	Colloids in Biomaterials and Biomedical Applications	Advanced Colloid Science for Applications and Products
	Chair Lucio Isa, ETH Zurich	Chair Andrij Pich, RWTH Aachen University	Chair Kevin Roger, CNRS Toulouse	Chair Krassimir Velikov, UNILEVER
17:00	OP: Ronit Bitton, Ben-Gurion University of the Negev <i>"Tuning the properties of multicomponent polysaccharide/peptide self-assembled macroscopic membranes"</i>	OP: Spyridon Varlas, 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>	OP: Jiankang Song, Eindhoven University of Technology <i>"Depletion interaction mediated micronization of proteins"</i>	OP: Andrew Clarke, Schlumberger Cambridge Research <i>"A microstructural investigation of an industrial attractive gel at pressure and temperature"</i>
17:20	OP: Cosima Stubenrauch, University Stuttgart <i>"Transition from a sponge-like to a foam-like nanostructure in water-rich L3 phases"</i>	OP: Ali M. Aboudzadeh, CNRS, IPREM <i>"Design of photosensitizer-based core-shell latex particles by PISA in alcoholic dispersion polymerization"</i>	OP: Simona Sennato, CNR ISC <i>"A novel approach for the determination of number concentration of liposomes by Laser Transmission Spectroscopy"</i>	OP: Nicolas Bremond, ESPCI Paris <i>"Shaping alginate hydrogel and tuning its properties for the design of a tubular bioreactor"</i>
17:40	OP: Ilan Shumilin, Hebrew University of Jerusalem <i>"Modifying macrocycle stability and supramolecular chemistry in a deep eutectic solvent"</i>	OP: Claire Counil, Case Western Reserve University <i>"Extrusion: A new method for rapid formulation of high-yield, monodisperse nanobubbles"</i>	OP: Dorota Matyszevska, University of Warsaw <i>"Factors determining the interactions of drugs used to treat chronic obstructive pulmonary disease with model lung surfactants"</i>	OP: Ignacio Martin-Fabiani, Loughborough University <i>"The role of polymer rheology modifiers in the assembly of drying binary colloidal dispersions"</i>

18:00	OP: Otto Glatter, TU Graz <i>"Inverse internally self-assembled particles (ISAsomes)"</i>	OP: Gyorgy Csilla, The University of Sheffield <i>"RAFT dispersion polymerization of methyl methacrylate in mineral oil"</i>	OP: Marta Szczęch, Polish Academy of Sciences <i>"Polymeric-based nanocarriers for the treatment of the central nervous system disorders"</i>	OP: Werner Kunz, University of Regensburg <i>"Organic reactions and radical polymerizations in surfactant-free, mesostructured liquids"</i>
18:20	OP: Marco Manca, University of Fribourg <i>"Optical tweezer platform for the characterization of pH-triggered colloidal transformations in the oleic acid / water system"</i>	OP: Nicole Janoszka, University Muenster <i>"Mesoporous multicompartement microparticles of semi-crystalline triblock terpolymers"</i>	OP: Charaf Eddine Merzougui, Laboratoire de Genie Chimique-CNRS-UPS <i>"Small-angle X-ray scattering (SAXS) to explore blood proteins interactions with polymers"</i>	OP: Gergana Radulova, Sofia University <i>"Rheological properties of micellar solutions and bicontinuous micellar phases"</i>
18:40	OP: Julia Sabadini, University of Campinas <i>"Morphological transition in ethoxylated coacervate core micelles"</i>	OP: Shaghayegh Hamzehlou, POLYMAT <i>"Monte Carlo simulation of the microstructure of bio-versus petroleum-based (meth)acrylates synthesized by emulsion polymerization"</i>	OP: Nihal Aydogan, Hacettepe University <i>"Synergistic Therapy of Breast Cancer by NIR-Responsive Nanostructured Lipid Carriers Containing Gold Nanorods"</i>	OP: Jesus F. Ontiveros, ENSCL-Centrale Lille <i>"Dynamic phase inversion as a tool to track the "optimal formulation" of microemulsions. Practical applications"</i>
19:00-20:00	General Assembly <i>Imperial Hall Room 1</i>			
20:00	Conference Dinner <i>"Sapel" Beach Restaurant</i>			

Award Talks and Keynote Speakers for Friday 9th of September

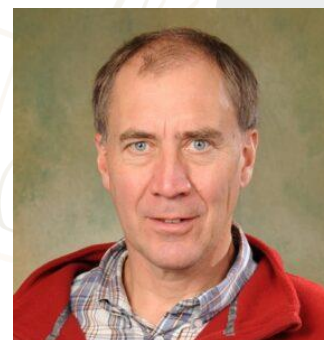
2022 Overbeek Gold Medal of the European Colloid & Interface Society

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

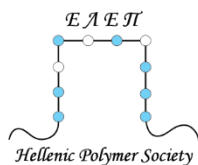
K.N. 1.4 Anne Laure Fameau | INRAE, France

Friday, 9th September 2022

09:00-09:45	Imperial Hall Room 1 (Hybrid)			
	Award Talk Overbeek Gold Medal Hans-Juergen Butt , Max Planck Institute <i>"Electrostatic charging: the source of the missing force on moving drops"</i> Chair: Dganit Danino , Technion Israel Institute of Technology			
09:45-10:15	Coffee Break			
10:15-12:25	Imperial Hall Room 1 (Hybrid)	Imperial Hall Room 2	Imperial Hall Room 3	Imperial Hall Room 4
	Colloids in Biomaterials and Biomedical Applications	Design and Synthesis of Colloidal Systems and Nanoparticles	Active and Bioinspired Colloidal Systems	Advanced Colloid Science for Applications and Products
	Chair Simona Sennato , Sapienza University of Rome	Chair Franziska Gröhn , University Erlangen-Nürnberg	Chair Daniel Harries , Hebrew University	Chair Piotr Warszyński , Surface Chemistry Polish Academy of Sciences
10:15	KN 1.1: Zahari Vinarov , Sofia University <i>"Colloids and interfaces: the missing link in understanding how advanced oral formulations improve drug absorption"</i>	KN 1.2: Benjamin Abecassis , CNRS and ENS Lyon <i>"Persistent nucleation and size dependent attachment kinetics produce monodisperse PbS nanocrystals"</i>	KN 1.3: Joost De Graaf , Utrecht University <i>"Understanding enhanced rotational dynamics of active probes in rod suspensions"</i>	KN 1.4: Anne Laure Fameau , INRAE <i>"Non-aqueous foams stabilized by crystalline particles: from design to applications"</i>
10:45	OP: Radiom Milad , ETH-Zürich <i>"Genetic or chemical conjugation influences the nanomechanics of virus-like particle (VLP) vaccines"</i>	OP: Martin Reifarh , University Potsdam <i>"Multi-functional patchy SiO₂ particles: Fabrication via microcontact printing and directed self-assembly"</i>	OP: Arturo Moncho-Jorda , University of Granada <i>"Controlling the structure, phase behavior and dynamics of soft colloids by active interaction switching"</i>	OP: Eva Judy , Eindhoven University of Technology <i>"Mechanistic aspects of drug encapsulation in colloidal assemblies"</i>
11:05	OP: Andreas Stadler , Forschungszentrum Jülich <i>"Effect of red blood cell shape changes on hemoglobin interactions and dynamics: a neutron scattering study"</i>	OP: Maria Karayianni , National Hellenic Research Foundation <i>"Development of double hydrophilic block copolymer/porphyrin ion complex micelles towards photofunctional nanoparticles"</i>	OP: Edward Ong , Cornell University <i>"Can activity in a 3D dense suspension of Quincke rotors cause thickening or dethickening?"</i>	OP: Mingyu Yuan , TU Berlin <i>"In-situ investigation of Ca²⁺ effects on humic acid aggregation with polyelectrolyte for water treatment"</i>
11:25	OP: Aneta Michna , Surface Chemistry Polish Academy of Sciences <i>"Adsorption kinetics of neurotrophins on polyelectrolyte multilayers- the impact of films on neuroblastoma cell viability"</i>	OP: Kornelia Gawlitza , Bundesanstalt für Materialforschung und -prüfung <i>"Fluorescent molecularly imprinted polymer particles for direct detection of glyphosate in organic solvents and water"</i>	OP: Antoine Deblais , University of Amsterdam <i>"Chromatographic separation of active polymer-like worm mixtures by contour length and activity"</i>	OP: Igor Siretanu , University of Twente <i>"Facet-dependent surface charge and hydration of colloidal nanoparticles at variable pH"</i>

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

Organizers



Sponsors



Useful Phone Numbers

Minoa Palace	0030-2821036500
Chania Bus Station	0030-2821093052
Taxi Chania	0030-2821098700
General Hospital Chania	0030-2821342000
Medical Center- Vittorakis Polyclinic	0030-2821060606
1 st Fire Department of Chania	0030-2821079340, 0030-2821063688
Chania Police Station	0030-2821025854

Conference Secretariat



"Diazoma Conference & Events".

Tel: 0030-6908 215112

Emails: info@diazoma.net
conferences@diazoma.net
meetings@diazoma.net

Professional Conference Organizer
“Diazoma Conferences & Events”

