



Self-Assembly of Colloidal Systems 2018

September 20-22, 2018 - Bordeaux

CONFERENCE PROGRAM





Welcome to Bordeaux !

The organizing committee is delighted to welcome you to Bordeaux for the 2018 edition of the SACS Conference.

Self-assembly of colloidal systems is a vast and interdisciplinary field of research including physics, chemistry, biology, medicine, nano-science and allowing transfer from fundamentals to applications.

At the conference we are fortunate to welcome some of the most outstanding scientists in the field of colloidal systems. The conference program will address the major topics of current and prospective interest in colloidal self-assembly. Over 100 presentations will be made on this topic over the three days of the conference, including around 55 posters presented during two evening poster sessions.

The conference dinner will be held the Mercure Cité Mondiale Congress Center, a spectacular venue that provides an outstanding view over the "Port de la Lune".

Bordeaux belongs to the Nouvelle-Aquitaine Region which is very famous for culinary specialties, vineyards, ocean activities, aerospace industries, and enjoys a mild climate in September.

We take this opportunity to thank our generous sponsors: without their support, the organization of the conference would be a difficult task.

We warmly welcome you to Bordeaux and we really wish you a truly successful and enjoyable conference and a pleasant stay!

The SACS'18 conference organizing committee

GENERAL CONFERENCE INFORMATION

Venue

Centre de Recherche Paul Pascal
115 avenue du Dr Albert Schweitzer
33600 Pessac, France

Access : Tramway line B
Doyen Brus station, + 10 minutes walk

Badge & security

Wearing your badge is mandatory during all conference activities for security reasons.

Poster sessions

Presenting authors are required to put their posters up in the morning/afternoon of the day on which their poster is scheduled (clips available at the welcome desk). Posters must be taken down at the end of the poster session. Posters not taken down will be removed.

Certificate of attendance / invoices

Certificate of attendance and invoices will be sent on request after the conference, on request at the welcome desk or by Email at :
sacs2018@u-bordeaux.fr

Emergencies

In the event of a medical emergency:
(24 hours a day, 7 days a week)

- Ambulance : 15
- Fire and rescue : 18
- SOS Médecins Bordeaux : 05 56 44 74 74
- European Emergency Number : 112

Pharmacies :

(24 hours a day, 7 days a week)

- Pharmacie des Capucins
30 place des Capucins - Bordeaux
- Pharmacie d'Albret
71 cours d'Albret - Bordeaux

Police : 17

Hôtel de Police - 23 rue François de Sourdis
Tram A - Hôtel de Police station

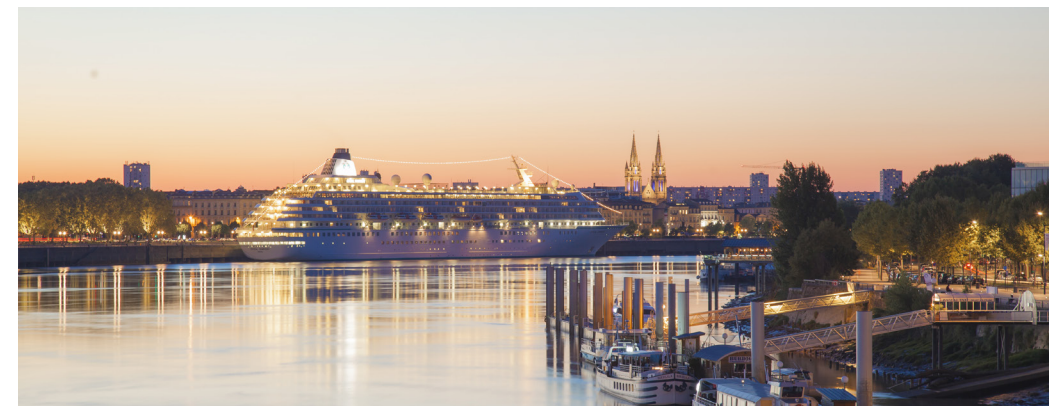
Conference dinner

The gala dinner will be held on Friday, 21st September, at Mercure Cité Mondiale Congress Center at 20.30. Jefferson lounge - 7th floor



Address : 20 quais des Chartrons - Bordeaux

Access : tramway line B, CAPC Musée d'art contemporain station.
Distance from the venue : about 40 min. by tramway



Photos : Bordeaux Convention Bureau

PROGRAM

Thursday, September 20th

8.30 - 9.00	Participants reception Welcome address
9.00 - 9.45	David J. PINE <i>Self-assembly of DNA-coated colloids: diamond, pyrochlore, and micelles</i>
9.45 - 10.05	Benjamin ABÉCASSIS <i>Self-assembly of CdSe nanoplatelets—stack and twist</i>
10.05 - 10.25	Caroline SALZEMANN <i>Binary superlattices from Fe₂O₃ magnetic nanocrystals and {Mo₁₃₂} polyoxometalates: long-range ordering and modulation of dipolar magnetic interactions</i>
10.25 - 10.45	Marieke GERTH <i>Dual responsive supramolecular assembly – unveiling the fine structure of azobta fibres and their complex (dis)assembly pathways</i>
10.45 - 11.15	Coffee break
11.15 - 11.50	Franck ARTZNER <i>Hierarchical crystallization of nanoparticles based on monodispersity or on polydispersity</i>
11.50 - 12.10	Matteo MOGNETTI BORTOLO <i>Functionalized interfaces direct colloidal layer deposition by controlling particle-particle interactions</i>
12.10 - 12.30	Juliette FITREMANN <i>Simple molecular gels from self-assembling alkyl galactonamides for 3D neuronal cell growth</i>
12.30 - 12.50	Jeroen VAN DUIJNEVELDT <i>Stabilisation of emulsions by montmorillonite platelets</i>
12.50 - 14.00	Lunch

14.00 - 14.45	Francesco SCIORTINO <i>Patchy dna particles</i>
14.45 - 15.05	Gerhard KAHL <i>Novel hybrid crystal-liquid phase formed by heterogeneously decorated colloidal particles</i>
15.05 - 15.25	Dafne MUSINO <i>Aggregate formation of surface-modified nanoparticles in solvents and polymer nanocomposites</i>
15.25 - 15.45	Dwaipayan CHAKRABARTI <i>Programming hierarchical self-assembly of patchy particles into colloidal crystals via colloidal molecules</i>
15.45 - 16.15	Coffee break
16.15 - 16.50	André H. GRÖSCHEL <i>Making complex colloids by self-assembly</i>
16.50 - 17.10	Cheng WU <i>Self-assembly of rod-like viruses into hybrid colloidal molecules</i>
17.10 - 17.30	Vanessa PREVOT <i>Design of latex@LDH particles toward nanocomposite films</i>
17.30 - 17.50	Joachim KOETZ <i>Undulated Au@Ag superstructures with special optical and catalytic properties by self-assembly of Ag nanoparticles in a cationic AOT/BDAC surfactant bilayer surrounding gold nanotriangles</i>
18.00 - 19.30	Poster session 1 Apéritif

Plenary

Keynote

Oral contribution



PROGRAM

Friday, September 21st

8.30 - 9.00	Participants reception
9.00 - 9.45	Kasue KURIHARA <i>Surface forces measurements and molecular organization</i>
9.45 - 10.05	Mohammad-Amin MORADI <i>Self-organization of designer binary colloidal systems into co-crystalline structures</i>
10.05 - 10.25	Jérôme CRASSOUS <i>Phase behaviour and assembly of bowl-shaped colloids</i>
10.25 - 10.45	Mariana KÖBER <i>Quatsomes: a new, thermodynamically stable nanovesicle system</i>
10.45 - 11.15	Coffee break
11.15 - 11.50	Marcus MÜLLER <i>Kinetics of structure formation in diblock copolymer films</i>
11.50 - 12.10	Alexander CHERVANYOV <i>Polymer-mediated interactions between colloids and their role in coagulation-fragmentation of colloidal aggregates</i>
12.10 - 12.30	Dwight SEFEROS <i>Self-assembly of conjugated polymers</i>
12.30 - 12.50	Christiane ZIEGLER <i>Self-assembly of plant virus particles forming 2D and 3D structures</i>
12.50 - 14.00	Lunch

14.00 - 14.45	Luis LIZ-MARZAN <i>Self-assembly under confinement</i>
14.45 - 15.05	Rose CERSONSKY <i>Pressure-tunable photonic band gaps in an entropic colloidal crystal</i>
15.05 - 15.25	Yongsok SEO <i>High-performance magnetorheological suspensions of pickering-emulsion polymerized polystyrene/Fe₃O₄ particles with enhanced stability</i>
15.25 - 15.45	Loïc JIERRY <i>Localized enzyme-assisted self-assembly using polyelectrolyte multilayer films</i>
15.45 - 16.15	Coffee break
16.15 - 16.50	Daniela KRAFT <i>Self-assembly dynamics of flexible colloidal molecules</i>
16.50 - 17.10	Remi MERINDOL <i>Pathway-controlled self-assembly of all-DNA colloids</i>
17.10 - 17.30	Fabienne GAUFFRE <i>From the «ouzo effect» to hybrid polymer/nanoparticle nanocapsules</i>
17.30 - 17.50	Yannick HALLEZ <i>Nanoxerography assisted by convective surface assembly</i>
18.00 - 19.30	Poster session 2 Apéritif

Plenary

Keynote

Oral contribution



PROGRAM

Saturday, September 22nd

8.30 - 9.00	Participants reception
9.00 - 9.45	Nicholas A. KOTOV <i>Chiral inorganic nanostructures</i>
9.45 - 10.05	Lola GONZALEZ-GARCIA <i>Self-assembly of ultrathin gold nanowires driven by ligand-solvent interactions</i>
10.05 - 10.25	Raphael MARTIN-RAPUN <i>Polysaccharide-coated polypeptidic micelles for drug delivery</i>
10.25 - 10.45	Erik DUJARDIN <i>Artificial repeat proteins designed as habit modifiers for the morphosynthesis and self assembly of Au {111}-terminated anisotropic nanocrystals</i>
10.45 - 11.15	Coffee break
11.15 - 11.50	Ilja VOETS <i>Engineering multi-responsive complex coacervate core micelles for novel applications</i>
11.50 - 12.10	Jean-Luc BLIN <i>Design of hybrid organic-inorganic nanosystems for drug delivery</i>
12.10 - 12.30	Won PARK <i>Self-assembled nanoclusters for detection and optoporation-aided chemotherapy of bladder cancer</i>
12.30 - 12.50	Olga ZABOROVA <i>Modification of pH-sensitive liposomes with polymer: additional control of pH-induced release of the encapsulated substance</i>
12.50 - 14.00	Lunch

14.00 - 14.20	Jérôme CLAVERIE <i>Self-assembled colloids as hierarchical catalysts for artificial photo synthesis</i>
14.20 - 14.40	Maryam NIKBAKHT NASRABADI <i>Self-assembly and characterization of biopolymer particles via electrostatic interaction between flaxseed mucilage and protein</i>
14.40 - 15.00	Ahmet DEMIROERS <i>Electric field assembly of colloidal superstructures</i>
15.00 - 15.20	Achille GIACOMETTI <i>The elixir phase of chain molecules</i>
15.20 - 15.40	Arnaud VIDECOQ <i>Self-assembly of ceramic colloids: experiments and simulations</i>
15.45 - 16.30	Sébastien LECOMMANDOUX <i>Biomimetic self-assembly of amphiphilic polymers and lipids towards biofunctional artificial cells</i>

End

Plenary

Keynote

Oral contribution



POSTER SESSION 1

Thursday, September 20th - 18.00 - 19.30

P1.1: Maha Alotaibi

From nanospheres to nanofibers: self-assembly of tuneable electroactive bolaamphiphiles

P1.2: Mariam Attoui

Polyoxometalate-based Nanohelices: Induced Chirality from Nanohelices to Achiral POM Clusters

P1.3: Tobia Cavalli

Synthesis of Angular Polymer Particles as Building Blocks for Advanced Materials by Self-Assembly

P1.4: Barbara Cerroni

Targeting tumour brain vasculature with RGD decorated lipid shelled Microbubbles

P1.5: Nicolas Debons

Patchy nanoparticles - collagen composite biomaterials for tissue engineering

P1.7: Lurii Eroshkin

Extension of the analytical calculation of the fast relaxation spectrum in micellar solutions

P1.8: Jie Gao

Chiral gold nanoparticle superstructures directed by silica nanohelices: towards innovative chiro-optical properties

P1.9: Lola Gonzalez-Garcia

The Ligand's Role in Nanoparticle Assembly and its Impact on the Printing of Electronic Nanostructures

P1.11: Evgeny Karpushkin

Shear-induced assembly of carbon nanofiller in polymer solutions

P1.13: Weiya Li

Chain structure fabrication by self-assembly of divalent silica nanoparticles

P1.15: Alexandra Nikolaeva

Physico-chemical design of condensed-phase materials with nano-carbon for harvesting laser irradiation

P1.17: Adeline Perro

Colloidosomes tailored by water-in-water emulsion

P1.18: Walter Rosas Arbelaez

Study of the effects of pH adjustments during the formation of colloidal zeolite TPA silicalite-1 particles

P1.19: Christophe Schatz

Structure, thermodynamic and kinetic signatures of a synthetic polyelectrolyte coacervating system

P1.20: Ali Sedaghat Doost

Designing nano-colloidal dispersion of thymol as a potential natural antioxidant

P1.21: Ali Sedaghat Doost

Self-assembly of biopolymer nanocomplexes of almond gum and whey protein isolate

P1.22: Ali Sedaghat Doost

Trans-cinnamaldehyde nanoemulsions stabilized using hydrophobically modified inulin with a powerful stability against stress conditions

P1.23: Gunnar Simonarson

Low-temperature spray deposition synthesis of ordered mesoporous titania films

P1.24: Stefanie Tjaberings

Complex block copolymer nanostructures as templates for novel hybrid materials

P1.25: Yosra Toumia

Photopolymerized Phase-Change Nanodroplets using Low-Boiling Point Perfluorocarbons as Contrast Agent for Ultrasound Imaging and Radiation Dosimetry Device

P1.26: Wu Wenbing

Towards self-assembled chiral plasmonic metasurfaces

P1.27: Xu Xufeng

Colloidal Nanoparticle assembly in a centrifugal field



POSTER SESSION 2

Friday, September 21st - 18.00 - 19.30

P2.1: Antoine Amestoy

Silica nanohelices decorated with electrically conductive Nanoparticles for sensing application

P2.2: Zheng Weichao

Twist transitions and equilibrium forces in a cholesteric liquid crystal probed with the Surface Force Apparatus

P2.3: Luxiao Chai

Rapid Access to Functional Oil-Filled poly(vinyl alcohol)-based Glyconanocapsules through Nanoprecipitation

P2.4: Rachel Yerushalmi-Rozen

Polymer micellization in Ethylene Glycol; the driving forces, and utilization for preparation of nano-inks

P2.6: Maxime Demazeau

Understanding the effectiveness of polymer-based nanocarriers for photodynamic therapy

P2.7: Ahmet Demiroers

Electric Field Assembly of Colloidal Superstructures

P2.8: Cindy Gomes Correia

Polycarbosilane-based block copolymers for thin film nanotechnologies.

P2.9: Patrick Hage

Synthesis of high-density functionalized microparticles for light-switchable assembly

P2.10: Mindaugas Juodenas

Templated Assembly of Ag Nanoparticles in Porous Anodized Alumina

P2.11: Camille Keita

In-situ photo-patterning of pressure-resistant hydrogel membranes with controlled permeabilities in PEGDA microfluidic channels

P2.12: Moncef Lehtihet

Mid-Infrared thermo-spectroscopic imaging of microfluidic drying process

P2.13: Xiang Li

Thermal reversible PTMC based networks by Diels-Alder reaction

P2.14: Laureen Moreaud

3D nanoparticle assembly driven by direct pairing or templating of designed artificial proteins

P2.15: Hervé Palis

Design, synthesis and purification of nanoparticles for self-assembled colloidal structures

P2.17: Olivier Sandre

Kinetics of aggregation and magnetic separation of multicore iron oxide nanoparticles: effect of the grafted layer thickness

P2.18: Ali Sedaghat Doost

Influence of salt on the stability of nanoemulsions: Ostwald ripening

P2.19: Ali Sedaghat Doost

Fabrication and functionality of novel almond gum-shellac nanoparticles as an oral delivery system

P2.22: Vitalii Tkachenko

Polymerization-induced self-assembly by photo-mediated controlled radical polymerization

P2.23: Ghita Touti

Onion like vesicles for transdermal delivery

P2.25: Yamine Elham

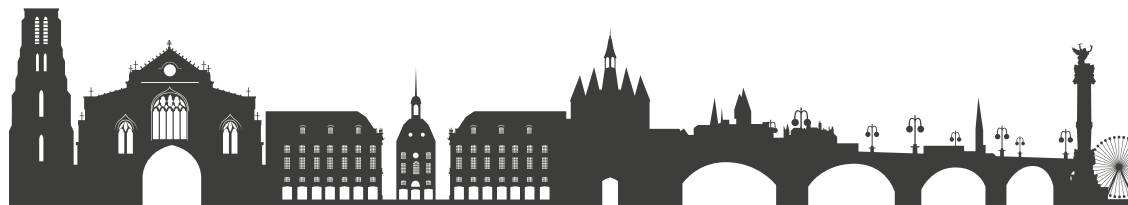
Application of maghemite/polymer hybrid particles to the elaboration of patchy particles for magnetically driven assembly

P2.26: Marieke Gerth

Dual responsive supramolecular assembly – Unveiling the fine structure of azoBTA fibres and their complex (dis)assembly pathways

P2.27: Sanaa Semlali

The Nano-Log Driver's Waltz: Orienting Silica Helices through Convective Evaporation





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With the support of



This study has received financial support from the French State in the framework of the IdEx Université de Bordeaux Investments for the future Program

