



# **10th International Symposium on Macrocyclic and Supramolecular Chemistry**

**Palais des Congrès**

**Place de Bordeaux, Strasbourg, France**

**Erasme Room**

**<http://ismsc2015.unistra.fr>**

**PROGRAMME**

## Programme 28 June – 2 July 2015

### Sunday 28 June 2015

#### **13:00-18:00 Registration Palais des Congrès**

18:00-18:15 **Welcome by:**

**Luisa De Cola** (Committee chair)

**Alain Beretz** (President of the Université de Strasbourg)

**Catherine Florentz** (Vice-president of research and doctoral training of the Université de Strasbourg)

**Jean-Marc Planeix** (Dean of the Faculty of Chemistry)

18:15–19:15 Opening lecture: **Jean-Marie Lehn**

*Perspectives in Chemistry: From Supramolecular Chemistry towards Adaptive Chemistry*

**19:30-21:30 Welcome cocktail**

## **Monday 29 June 2015**

*Chairperson: Nicolas Giuseppone*

9:00-9:50 **E. W. (Bert) Meijer** – Eindhoven University of Technology, The Netherlands  
*Folding of Macromolecules; Functional single-chain polymer nanoparticles*

9:50-10:05 Gianluca Farinola – Università degli Studi di Bari, Italy  
*Supramolecular photoconverters from bacterial photoenzymes*

10:05-10:20 Euan Kay – University of St. Andrews, UK  
*Dynamic covalent control of nanoparticle properties and self-assembly*

10:20-10:50 Pablo Ballester – Institute of Chemical Research of Catalonia (ICIQ), Spain  
*Mechanically Interlocked Molecules Containing Calix[4]pyrrole Scaffolds*

### **10:50-11:20 Coffee break**

*Chairperson: Antonella Dalla Cort*

11:20-11:50 Davide Bonifazi – University of Namur, Belgium  
*Supramolecular Colorlands*

11:50-12:05 Michal Lahav – The Weizmann Institute of Science, Israel  
*Coordination-Based Molecular Assemblies as Electrochromic Materials*

12:05-12:35 Kentaro Tanaka – Nagoya University, Japan  
*Columnar Liquid Crystalline Macrocycles*

12:35-12:50 Charles-André Fustin – Université Catholique de Louvain, Belgium  
*Probing the mobility of catenane rings in single molecules*

### **12:50-14:30 Lunch break**

*Chairperson: Mir Wais Hosseini*

14:30-15:00 Ian Manners – University of Bristol, UK  
*Recent Advances in “Living” Crystallization-Driven Self-Assembly*

15:00-15:15 Stéphanie Durot – Université de Strasbourg, France  
*Silver(I)-Assembled Porphyrin Coordination Cages : Towards Stimuli-Responsive Cages with a Size-Controlled Cavity*

15:15-15:30 Roeland Nolte – Radboud University, Nijmegen, The Netherlands  
*Design and Construction of a Molecular Turing Machine*

15:30-15:45 Giulio Ragazzon – Università di Bologna, Italy  
*An artificial molecular transporter*

### **15:45-16:15 Coffee break**

*Chairperson: Sally Brooker*

16:15-16:45 Nathan McClenaghan – University of Bordeaux, France  
*Light-driven catenation and intermolecular communication in solution and nanocapsules*

16:45-17:00 Mykhailo Vybornyi – University of Bern, Switzerland  
*From supramolecular sheets to fibers and back: establishing the critical parameters that govern the morphology of pyrene-based self-assembled materials*

17:00-17:15 Alessandro Aliprandi – Université de Strasbourg, France  
*Kinetically trapped aggregates of luminescent Pt(II)-based compounds converting to thermodynamically favored fibrils*

17:15-17:45 Harry Anderson – Oxford University, UK  
*Supramolecular Chemistry and Photophysics of Light-Harvesting Nanorings*

17:45-18:30 Flash presentations (A) 10 posters 3 minutes each:

David Bardelang

Frank Biedermann

Ana M. Belenguer

Tom S. Carter

Nerea Bilbao

Giacomo Cecot

Sébastien Dhers

Sébastien Goeb

Kazuhisa Iwaso

Christine Paul-Roth

**18:30-20:30 Poster session A in Galerie Marbre and Forum  
cheese and wine**

## **Tuesday 30 June 2015**

*Chairperson: Davide Bonifazi*

9:00-9:50 **Samuel I. Stupp** – Northwestern University, USA  
*Bio-Inspired Supramolecular Materials*

9:50-10:05 Olga García Mancheño – University of Regensburg, Germany  
*Induced Chiral Helical Triazole-based Structures by C-H...Anion-Binding: Novel Catalysts for the Enantioselective Dearomatization of Heteroarenes*

10:05-10:20 Oliver Dumele – ETH Zürich, Switzerland  
*Halogen Bonding Supramolecular Capsules*

10:20-10:50 Jeroen Cornelissen – Twente University, The Netherlands  
*Supramolecular Protein Assemblies, from Cages to Tubes*

### **10:50-11:20 Coffee break**

*Chairperson: Roger Harrison*

11:20-11:50 Damien Baigl – Ecole Normale Supérieure, Paris, France  
*Light-driven liquids, particles, and interfaces: from microfluidics to coffee rings*

### **11:50-12:00 Cram Lehn Pedersen Prize**

12:00-12:50 **Winner talk: Feihe Huang** – Zhejiang University, China  
*Supramolecular Polymers Based on Host-Guest Molecular Recognition Motifs*

### **12:50-14:30 Lunch break**

*Chairperson: Valérie Heitz*

14:30-15:20 **Takashi Kato** – The University of Tokyo, Japan  
*Supramolecular Liquid-Crystalline Materials for Energy, Water, and Environment*

15:20-15:35 Itaru Hamachi – Kyoto University, Japan  
*Protein responsive supramolecular assembly for live cell imaging*

15:35-15:50 Jonathan Sessler – The University of Texas at Austin, USA  
*Large heterocyclic macrocycles. New building blocks for supramolecular assembly*

15:50-16:30 Bruce Gibb – Tulane University, USA  
*Properties of Water-Soluble Cavitands: Probing the Hydrophobic Effect*

### **16:30-20:30 Departure to the city**

### **20:30-23:00 Banquet: Pavillon Joséphine, Parc de l'Orangerie**

## **Wednesday 1 July 2015**

*Chairperson: Jonathan Sessler*

- 9:00-9:50 **Tanja Weil** – Universität Ulm, Germany  
*Programmed Self-Assembly of Bioactive Architectures*
- 9:50-10:05 Cristina Garcia-Simon – Universitat de Girona, Spain  
*Enantioselective hydroformylation by a Rh-catalyst entrapped in a supramolecular metallocage*
- 10:05-10:20 David Turner – Monash University, Australia  
*Chiral Networks and Cages Using Amino-Acid Derivatives*
- 10:20-10:50 Zhan-Ting Li – Fudan University, China  
*Supramolecular organic framework: periodic self-assembled architectures in water*

### **10:50-11:20 Coffee break**

*Chairperson: Jean-Pierre Sauvage*

- 11:20-11:50 Michito Yoshizawa – Tokyo Institute of Technology, Japan  
*Construction of Supramolecular Nanospaces Encircled by Multi-Anthracene Panels*
- 11:50-12:00 **Izatt-Christensen Award**
- 12:00-12:50 **Winner talk: Paul Beer** – Oxford University, UK  
*Interlocked Host Molecules for Anion Recognition and Sensing*

### **12:50-14:30 Lunch break**

*Chairperson: Matteo Mauro*

- 14:30-15:00 Stefan Hecht – Humboldt-Universität zu Berlin, Germany  
*Towards spatio-temporally resolved chemistry*
- 15:00-15:15 Julia Buendia – Universidad Complutense de Madrid, Spain  
*Correlation between the amide connectivity and handedness in self-assembled OPE-based trisamides*
- 15:15-15:30 Eric Masson – Ohio University, USA  
*Dynamic oligomers and stereoisomers controlled by Cucurbiturils*
- 15:30-16:00 Helma Wennemers – ETH Zürich, Switzerland  
*Controlling Supramolecular Assemblies with Peptidic Scaffolds*

### **16:00-16:30 Coffee break**

*Chairperson: Richard Keene*

16:30-17:00 Hanadi F. Sleiman – McGill University, Canada

*DNA Nanostructures for Cellular Delivery of Therapeutics*

17:00-17:15 Wei Lu – South University of Science and Technology of China, China

*Structurally Rigid and Phosphorescent Metal-Organic Complexes as Building Blocks for Supramolecular Polymeric Nanomaterials and Mesophases*

17:15-17:45 Enrico Dalcanale – Università di Parma, Italy

*Environmental and biological sensing with cavitands*

17:45-18:30 Flash presentations 10 posters 3 minutes each

David Gonzalez-Rodriguez

Christophe Lescop

Xuesong Li

Javier Lopez-Andarias

Masaki Nakahata

Gretchen Marie Peters

Fredrik Schaufelberger

Fabian Sommer

Mariachiara Trapani

Nicolas Yutronic

**18:30-20:30 Poster session B in Galerie Marbre and Forum  
sausages and beer**

## **Thursday 2 July 2015**

*Chairperson: Helma Wennemers*

- 9:00-9:50 **Takuzo Aida** – University of Tokyo, Japan  
*Materials Science Using Electrostatic Repulsions*
- 9:50-10:05 Pinaki Talukdar – Indian Institute of Science Education and Research Pune, India  
*Synthetic Ion Channels for Selective Anion Transport*
- 10:05-10:20 Agnieszka Szumna – Polish Academy of Sciences, Poland  
*Hybrid peptidic capsules by chiral self-assembly and self-sorting*
- 10:20-10:50 Mihail Barboiu – Institut Européen des Membranes, France  
*Molecular encapsulation of dynamic systems inside the crystalline cages*

### **10:50-11:20 Coffee break**

*Chairperson: Luisa De Cola*

### **11:20-11:30 Poster Awards**

- 11:30- 11:45 Ji Liu – University of Cambridge, UK  
*Interfacial Adhesion of Gels via Cucurbit[8]uril-based Host-guest Chemistry*
- 11:45-12:00 Giulio Gasparini – University of Geneva, Switzerland  
*Disclosing New Ways for Poly(disulfide)s to Enter Cells*
- 12:00-12:30 Woo-Dong Jang – Yonsei University, Korea  
*Supramolecular assembly of multiporphyrin array systems as mimics of light harvesting antenna*
- 12:35-12:50 **Presentation of the 11<sup>th</sup> ISMSC2016**
- 12:50-13:00 Concluding remarks
- 13:00 End of the conference**