



EUROPEAN
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ESF Research Conferences

A Programme of the European Science Foundation

Supramolecular Chemistry Molecular Architectures and Systems

Obernai (near Strasbourg), France, 14 - 19 October 2005

Chair: **M. Wais Hosseini** (Inst. Universitaire de France & Univ. Louis Pasteur, Strasbourg, FR)

Vice-Chair: **A. Guy Orpen** (University of Bristol, UK)

Organising Committee:

S. Ferlay, E. Graf & J.-M. Planeix (Univ. Louis Pasteur, Strasbourg, FR)

With support from



Final Programme

On line at: <http://www.esf.org/conferences/pc05020>

Friday 14 October

Late afternoon / early evening	Registration at the hotel reception and ESF desk
19.30	Supper
21.00	Get-together-drinks

Saturday 15 October

08.20	Conference Opening
08.30	Fritz Vögtle (Bonn University, DE) <i>Chemistry and (Topological) Chirality of Molecular Knots.</i>
09.10	Discussion
09.20	Mike Zaworotko (University of South Florida, Tampa, US) <i>From Molecular Building Blocks to Binary and Ternary Nets.</i>
10.00	Discussion
10.10	Coffee break

- 10.30 **Robin Rogers** (University of Alabama, Tuscaloosa, US)
Approaches to Crystallization from Ionic Liquids: a Strategy for Controlled Formation of New Supramolecular Architectures.
- 11.10 Discussion
- 11.20 **Martin Schröder** (University of Nottingham, UK)
High Connectivity Framework Polymers: A New Coordination Chemistry.
- 12.00 Discussion
- 12.10 **Andrew Griffiths** (Université Louis Pasteur, Strasbourg, FR)
Directed evolution and high-throughput screening in microdroplets
- 12.50 Discussion
- 13.00 Lunch
- 16.30 Coffee break
- 17.00 **Robert Corriu** (Montpellier University, FR)
Self-organisation in non crystalline hybrid organic-inorganic materials.
- 17.40 Discussion
- 17.50 **Lia Addadi** (The Weizmann Institute of Science, Rehovot, IL)
Molecular Recognition at Organized Biological Interfaces
- 18.30 Discussion
- 18.40 **Samuel I. Stupp** (Northwestern University, Evanston, US)
Novel Functions through Self-Assembly in Medicine and Electronics
- 19.20 Discussion
- 19.30 Dinner
- 21.00 **Poster session #1**

Sunday 16 October

- 08.30 **Jacques Livage** (Université Paris VI, Collège de France, FR)
Life in Silica Glasses
- 09.10 Discussion
- 09.20 **M. Wais Hosseini** (Inst. Universitaire de France & Univ. Louis Pasteur, Strasbourg, FR)
Perspectives in molecular tectonics
- 10.00 Discussion
- 10.10 Coffee break
- 10.30 **James D. Wuest** (Université de Montréal, CA)
Engineering Molecular Crystals.
- 11.10 Discussion
- 11.20 **David Reinhoudt** (Twente University, NL)
Writing with Molecules on Molecular Printboards.
- 12.00 Discussion

- 12.10 **Jean-Claude Bünzli** (EPFL, Lausanne, CH)
Metallosupramolecular Chemistry: Playing with Lanthanide Functionalities.
- 12.50 Discussion
- 13.00 Lunch
- 16.30 Coffee break
- 17.00 **Jean-Pierre Sauvage** (Louis Pasteur University, Strasbourg, FR)
Catenanes and Rotaxanes as Prototypes of Molecular Machines and Motors.
- 17.40 Discussion
- 17.50 **Christer Aakeröy** (Kansas State University, Manhattan, US)
Supramolecular Reagents: Versatile Tools for Non-Covalent Synthesis.
- 18.30 Discussion
- 18.40 **Achim Müller** (Bielefeld University, DE)
Spherical Porous Clusters allow Coordination Chemistry under Confined Conditions as well as Multi-Pore Based Supramolecular Chemistry.
- 19.20 Discussion
- 19.30 Dinner
- 21.00 **Poster Session #2**

Monday 17 October

- 08.30 **Guy Orpen** (University of Bristol, UK)
Synthetic Crystallography.
- 09.10 Discussion
- 09.20 **Chris A. Hunter** (University of Sheffield, UK)
Fundamentals of Molecular Recognition.
- 10.00 Discussion
- 10.10 Coffee break
- 10.30 **Gérard Ferey** (Versailles University, FR)
Designed Crystallized Frameworks with Very Large Pores: are there Limits to the Possible?
- 11.10 Discussion
- 11.20 **Peter Bäuerle** (Ulm University, DE)
Novel Structures and Topologies in the Field of Conjugated Oligomers and Polymers.
- 12.00 Discussion
- 12.10 **Vincenzo Balzani** (University of Bologna, IT)
Molecular-Level Devices and Machines.
- 12.50 Discussion
- 13.00 Lunch
- 14.00 **Excursion to Strasbourg: boat trip and free time**

- 19.30 Dinner & **Poster Prizes Award:**
- Université Louis Pasteur (ULP)
 - Institut des Sciences & Ingénierie Supramoléculaires (ISIS)
 - Institut Universitaire de France (IUF)
 - CrystEngComm. (RSC)
 - Cryst. Growth and Design (ACS)
 - Nouveau Journal de Chimie (NJC)
- 21.00 **6 Flash Communications**
- 21.50 – 22.20 **Special discussion about the future of this conference series**

Tuesday 18 October

- 08.30 **Luisa De Cola** (Münster University, DE)
Light and Colours. Designing and Assembling Metal Complexes for Lighting Application.
- 09.10 Discussion
- 09.20 **Makoto Fujita** (University of Tokyo, JP)
Function through Architecture.
- 10.00 Discussion
- 10.10 Coffee break
- 10.30 **Mike D. Ward** (University of Minnesota, Minneapolis, US)
Programmed Assembly of Hydrogen-Bonded Frameworks: Architectural Diversity and Soft Building Blocks.
- 11.10 Discussion
- 11.20 **Kenneth N. Raymond** (University of California, Berkeley, US)
Chemistry of, and in, Chiral, Nanoscale Flasks.
- 12.00 Discussion
- 12.10 **J. Fraser Stoddart** (University of California, Los Angeles, US)
The Magnificent Young Chemists and their Working Molecular Machines.
- 12.50 Discussion
- 13.00 Lunch
- 16.30 Coffee break
- 17.00 **Klaus Müllen** (MPI for Polymer Research, Mainz, DE)
Hierarchies of Structure Formation: from Benzene to Molecular Electronics.
- 17.40 Discussion
- 17.50 **Claude Piguet** (University of Geneva, CH)
Simple Thermodynamics for Unravelling Sophisticated Self-Assembly Processes.
- 18.30 Discussion
- 18.40 **Jean-Marie Lehn** (Université Louis Pasteur, Strasbourg, FR)
Supramolecular Chemistry: Self-Organization by Design and by Selection.
- 19.20 Discussion

Wednesday 19 October

- 08.30 **Mladen Zinic** (Rudger Boskovic Institute, Zagreb, HR)
Supramolecular Chemistry and Stereochemistry of Gel Assemblies.
- 09.10 Discussion
- 09.20 **Susumu Kitagawa** (Kyoto University, JP)
Porous Coordination Polymers with Structural Regularity, Flexibility and Functionality.
- 10.00 Discussion
- 10.10 Coffee break
- 10.30 **Edwin C. Constable** (Basel University, CH)
Threads, Rings and Mirrors... a Journey from Metallopolymers to Novel Chiral Structures.
- 11.10 Discussion
- 11.20 **Lee Brammer** (University of Sheffield, UK)
Halogen-Mediated Supramolecular Interactions: a Guide to Supramolecular Assembly and Crystal Design.
- 12.00 Discussion
- 12.10 **Javier De Mendoza** (ICIQ Tarragona, ES)
Self-Assembly with Multiple Hydrogen Bonds and Calixarenes.
- 12.50 Discussion
- 13.00 Lunch and Departure

All abstracts are accepted as **posters**.
There will be no short oral presentations other than the six **flash communications** which will be selected from posters.