IUPAC MACRO 2004

The 40th IUPAC International Symposium on Macromolecules will be held in Paris, France, July 4 - 9, 2004.

It will be organized by Centre National de la Recherche Scientifique, with the participation of Université Pierre et Marie Curie (Paris-6), École Supérieure de Physique et de Chimie Industrielles de la Ville de Paris and under the auspices of European Polymer Federation, Groupe Français des Polymères, division of the Société Française de Chimie, and of the Société Française de Physique, Groupe Français de Rhéologie, Polymer Processing Society.

This major Conference will bring together scientists from the forefront of all sections of the world polymer community: chemists, physicists, rheologists, mechanical and process engineers, educators and students, coming either from academia, governmental institutions or industrial companies.

The program will be structured around three half-day plenary sessions devoted to contemporary topics of interest to the whole polymer community, and around a series of symposia related to more specialized areas. It will involve plenary and invited lectures together with contributed oral and poster presentations.

VENUE
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MACRO 2004 Scientific Secretariat
Laboratoire de Chimie des Polymères
Case 185, Université Paris 6, M. Curie
4 Place Jussieu, 75252 PARIS cedex 05, France
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Tel: +33 (0)1 44 64 03 00 Fax: +33 (0)1 44 64 03 01

DEADLINES
Abstract of papers: March 25th, 2004
Registration (discount rate): May 15th, 2004

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SCIENTIFIC PROGRAM
The Conference will embrace major frontier topics in Polymer Science, as well as in the fundamental and applied aspects of chemistry, chemical physics and physics of macromolecules and in polymeric materials (mechanics, failure, rheology, blending, processing). Emphasis will be on new concepts and developments (controlled synthesis and industrial processes, controlled architecture and order, combinatorial approaches, polymer supramolecular assemblies, physics of new macromolecular architectures, physics of interfaces and adhesion, associating polymers, supramolecular materials, new materials (properties / applications, etc.). The program involves 9 main topics, covered by 21 symposia, including some special ones linked to evolving world/state policies.

1. POLYMER CHEMISTRY: REACTIONS AND PROCESSES
Sym 1-1 Polycoupling, polyaddition and chain polymerizations - Catalytic polymerization and organometallic catalysis
Chairpersons: A. DEVIPS (Bordeaux) R. JEROME (Lyon) M. RUBAK (Göttingen)

Sym 1-2 Preparation of polymers in dispersed and unconventional media
Chairpersons: P. CANDAU (Strasbourg) R. GILBERT (Sudbury) C. PICHOT (Geneva)

Sym 1-3 Polymerisation processes, control and monitoring
Chairpersons: T. AKINO (Lyon) W. FEEN (New Osaka)

2. MACROMOLECULAR ARCHITECTURES AND ORDERED MATERIALS
Sym 2-1 Controlled macromolecular synthesis and controlled architectures - Supramolecular polymer assemblies
Chairpersons: B. CHARLEUX (Paris) C. PICHOT (Geneva) C. WILLIAMS (Paris)

Sym 2-2 Nane and mega scale polymeric materials
Chairpersons: B. MÖRER (Lausanne) M. RINNO (Paris)

Sym 2-3 Polymers in the solid state
Chairpersons: R. LOTZ (Geneva) J. EYANG (Moscow)

Sym 2-4 Theory, modelling and simulation of polymeric materials
Chairpersons: W. GIANT (Munich) A. KNOCHLOD (Bordeaux)

3. NEW TOOLS AND POLYMER CHARACTERIZATION TECHNIQUES
Sym 3-1 Hypercrosslinked material and high throughout screening in polymer research
Chairpersons: Q. LAVASTRE (Nantes) M. FALCOU (Saint-Quentin-En-Yvelines)

Sym 3-2 Recent developments in polymer characterisation: new and advanced techniques
Chairpersons: M. G. FREIMER-LUTZLOTT (Lyon) S. NAGOROC (Washington)

Sym 3-3 POLYMER BASED COMPLEX SYSTEMS
Sym 4-1 Polyelectrolytes, gels and complex fluids
Chairpersons: C. WILLIAMS (Paris) C. EISENBERG (Normand)

Sym 4-2 Polymer interfaces and polymers at interfaces - Film forming, films and coatings
Chairpersons: L. LEGER (Paris) M. WINNIK (Toronto)

Sym 4-3 Polymer blends, composites and hybrid polymeric materials
Chairpersons: T.H. PASCAULT (Lyon) L.-E. MARK (Caxamoch)

5. POLYMERS FOR ADVANCED APPLICATIONS
Sym 5-1 Polymers for energy, electronic, optoelectronic and optical applications

Sym 5-2 Membranes - Stimuli responsive polymers
Chairpersons: A. RINALDI (Lyon) P. OSADA (Toulouse)

Sym 5-3 Biocatalytic polymers, biodegradation, biocompatibility and bio-medical uses
Chairpersons: M. KAMPSHUIJS (Tilburg) H. KATAGIRI (Tilburg)

Sym 5-4 Polymers and environment - Polymers for renewable sources
Chairpersons: A. GARDON (Valencia) P. W. SELLIN (Aachen)

Sym 5-5 POLYMER PROCESSING AND PRODUCED INDUSTRIES
Sym 6-1 Rheology - Mat and solid state mechanical properties
Chairpersons: B. YERGNET (Sana-Athens) B. BRUGNIEL (Nantes)

Sym 6-2 Processing and reactive processing
Chairpersons: F. FABIAN (Los Angeles) P. LEVAN (Geneva)

7. NEW DEVELOPMENTS IN COMMERCIAL POLYMERS
Sym 7-1 Commodities / Engineering plastics and electronic materials
Chairpersons: M. GLOTIN (Paris) P. ARMANDER (San Francisco)

Sym 8-1 POLYMER EDUCATION: FROM THE ACADEMIC TO THE INDUSTRIAL LEVEL
Sym 8-2 New developments in chemical processes and materials science
Chairpersons: G. FROYER (Nantes) A. KYHOLOL (Moscow)

9. INTERNATIONAL COLLABORATION IN POLYMER SCIENCE: NOVEL INITIATIVES
Sym 9-1 Polymerization in CASTELMAURAC (Bordeaux)
Chairpersons: S. PENCZKY (Ecole)

PLENARY LECTURES
The following speakers have confirmed their participation.
A. DIQI Nogaro
N. JAOI Brussels
B. FRECHET Berlin
J.-M. LEHN Strasbourg
C. MACSOKO Montréal
S. PENCZKY Paris
K. MATYJASZEWSKI Pittsburgh
T. McKENNA Lyon
M. E. NEUHOERFER Eindhoven
A. KHOKHLOV Montpellier
M. KUHNBACH Lausanne
M. WINNIK Toronto
A. DEFFIEUX Bordeaux
M. FONTANILLE Lodz
S. PENCZKY Paris
J.-E. MARKC (Paris)
M. SCHOT Paris
M. RINAUDO Paris
J.-E. MARKC (Paris)
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