

Where 2B & Y



Chemistry in Tunisia

19–22 December 2010
Hammamet, Tunisia

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Conducting Polymers

10–14 July 2011, Prague, Czech Republic

Conducting polymers are studied because of their conductivity, as functional materials, and for their ability to respond to external stimuli. Polyaniline and polypyrrole are typical, but are by no means the only, conducting polymers. They are investigated alone, or as components of compound materials. The synthesis of conducting polymers and the preparation of their composites, their structural characterization, their physical and chemical properties, and their applications both in well-established and new surprising directions will be discussed at the **75th Meeting on Macromolecules**, 10–14 July 2011, Prague, Czech Republic.

Following are the specific meeting topics:

- **Chemical and electrochemical synthesis of conducting polymers**, the control of molecular structure and supramolecular morphology. Preparation of thin films, colloidal particles, and coatings. Composite materials comprising conducting polymers, combinations of conducting polymers with noble metals, carbons, and other inorganic and organic components. Related oligomers. The chemical modification and carbonization of con-

ducting polymers. Processing of conducting polymers and their stability.

- **Characterization of conducting polymers** by spectroscopic methods. Modelling and simulations. Molar masses and molecular architecture. Electrical, magnetic, mechanical, optical and other physical properties of conducting polymers. Charge transport. Chemical properties of conducting polymers. The relations between the chemical and physical properties of conducting polymers.
- **Applications of conducting polymers** as conducting materials or inks (e.g., in flexible electronics). The use of conducting polymers in corrosion protection, in electrorheology. Conducting polymers in energy conversions, as electrode materials in fuel cells, batteries, and supercapacitors. The design of analytical devices, sensors, and actuators. The role of conducting polymers in catalysis and electrocatalysis, separation science and membrane technologies, in biomedical applications and other fields.

See **Mark Your Calendar** on page 36 for contact information.

 www.imc.cas.cz/sympo/75pmm