



## ***Symposium F : Organic Electronics and Bioelectronics: Fundamentals, Applications and Emerging Technologies***

### **Scope of the Symposium**

The Symposium intends to bring together chemists, materials scientists, biologist, physicists, and engineers from both academia and industry to share information on the organic- and bio-related materials for devices application and emerging technologies in organic electronics field. It includes all types of organic/inorganic functional materials, as well as their electronic and optoelectronics properties towards applications. The research topics comprise all types of synthesis, processing techniques (molecular crystals, multilayers, self-assemblies, printing techniques, and thin films), compounds (polymers, small molecules, composites, blends, nanoparticles, liquid crystals, hybrid), micro- and nano-fabrication, interfaces, spectroscopic characterization (linear and non-linear), surfaces (conducting, flexible, transparent substrates), electronic, and photonic properties. In addition, the symposium is equally opened for any type of electronic, photonic and hybrid devices, such as: light-emitting diodes (LEDs), field-effect transistors (FETs), MIS capacitors, diodes, electrochemical cells and transistors, photovoltaics (PVs), thermoelectrics, supercapacitors, integrated circuits, non-volatile memories, batteries, sensors, actuators & detectors. In this context, the Symposium aims to discuss the future of Organic Electronics and Bioelectronics to argue our current understanding and to define future trends of this exciting field.

### **Abstracts will be solicited in (but not limited to) the following areas**

- *Synthesis and characterization of conjugated molecules and polymers, hybrid, and compounds*
- *Natural/biocompatible electronic materials*
- *Synthesis and characterization of functional liquid crystals and their applications*
- *Mixed ion-electron conduction*
- *Interfaces and bulk properties: advances in material processing*
- *Photonic, photophysics, and photochemistry of conjugated molecules and polymers*
- *Electronic, photonic, hybrid and carbon-based devices*
- *Micro- and nano-fabrication of organic or hybrid materials*
- *Organic sensors, biosensors and interfacing biology to electronics*
- *Theoretical modeling of conjugated molecules or polymers and organic devices*

### **Tentative list of invited speakers (To be confirmed)**

**Jeffrey Kettle** (Bangor University) **Andy Monkman** (Durham University) **Harald Bock** (Centre de Recherche Paul Pascal) **Paulo Rocha** (University of Bath) **Matthias Lehmann** (University of Würzburg) **Antonio Riul Junior** (Universidade Estadual de Campinas) .

### **Symposium Organizers**

**Juliana Eccher** (Universidade Federal de Santa Catarina) **Marystela Ferreira** (Universidade Federal de São Carlos) **Douglas Jos Coutinho** (Universidade Tecnológica Federal do Paraná) **Eduard Westphal** (Universidade Tecnológica Federal do Paraná) .

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