

EPF Advisory Board

A.-C. Albertsson (Sweden)	A. Krzan (Slovenia)
S. Anastasiadis (Greece)	N. Manolova (Bulgaria)
G. Bogoeva-Gaceva (Macedonia)	P. Müller-Buschbaum (Germany)
A. Correia-Diogo (Portugal)	E. Nies (Belgium)
A. Dworak (Poland))	C. Paulik (Austria)
B. Dunjić (Serbia)	F. Rypacek (Czech Rep)
G. Galli (Italy)	J. San Roman (Spain)
D. Grande (France)	E. Segal (Israel)
L. Hutchings (UK)	B. Simionescu (Romania)
M. Ivankovic (Croatia)	H. Tenhu (Finland)
R. Jones (UK)	G. Teteris (Latvia)
A.R. Khokhlov (Russia)	T. Tincer (Turkey)
T. Dingemans (The Netherlands)	B. Voit (Germany)
H.-A. Klok (Switzerland)	S. Hvilsted (Denmark)
M. Laus (Italy)	M. Omastova (Slovakia)

Previous Europolymer Conferences

The European Polymer Federation decided from 1998 onwards to organize a series of Europolymer Conferences (EUPOCs) on topics of recent scientific and industrial interest. These annual conferences take place in Gargnano on Lake Garda at the Palazzo Feltrinelli. The scientific program consists of invited lectures, oral communications and poster presentations. Ample time is given to free discussions, encouraged by the residential style of the conference. The titles of recent EUPOCs were:

- *Advanced Polymeric Materials for the Energy Resources Exploitation* (EUPOC 2008)
- *"Click"-Methods in Polymer and Materials Science* (EUPOC 2009)
- *Hierarchically Structured Polymers* (EUPOC 2010)
- *Biobased Polymers and Related Biomaterials* (EUPOC 2011)
- *Porous Polymer-based Systems* (EUPOC 2012)
- *Polymers and Ionic Liquids* (EUPOC 2013)
- *Precision Polymers: Synthesis, Folding and Function* (EUPOC 2014)
- *Conducting Polymeric Materials* (EUPOC 2015)

Organization



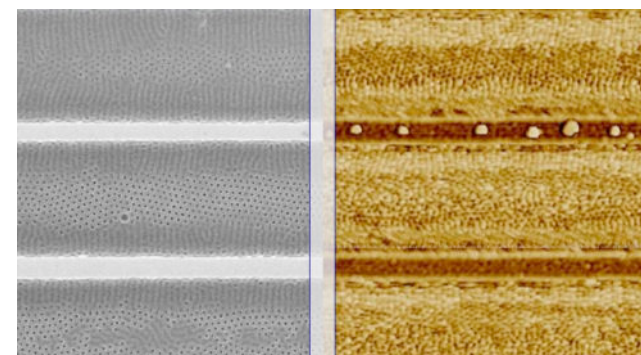
Università del Piemonte Orientale
Technische Universität München
Associazione Italiana di Scienza e Tecnologia della Macromolecole
Università di Pisa, Dipartimento di Chimica e Chimica Industriale
Università di Milano



EUPOC2016

Block Copolymers for
Nanotechnology
Applications

22 - 26 May 2016
Gargnano, Lago di Garda, Italy
Palazzo Feltrinelli



First Circular & Call for Papers

www.eupoc2016.it

Scope & Objectives

The EUPOC 2016 conference will focus on block copolymer self-assembling to fabricate functional nanostructure materials. The aim is to introduce the most recent developments within the various areas of block copolymer-based nanotechnologies with presentations from leading international scientists and industrial researchers working in this field.

Block copolymers can hierarchically self-assemble into chemically distinct domains with size and periodicity on the order of 10 nm or below. The final structural characteristics of these materials are dictated by the elementary block properties, covering the chain length, volume fraction and degree of block incompatibility. A wide variety of distinct morphologies, including spherical, cylindrical, and lamellar to more complex gyroid, Fddd, and hexagonally perforated layer structures can be obtained. In addition, the self-assembly is a highly parallel process, occurring spontaneously over the entire surface. The combination of these particular characteristics makes block copolymers extremely appealing for both fundamental studies and technological applications in several different fields that include nanostructured networks, nanoporous membranes, drug delivery vehicles, nanoparticle templates, organic photovoltaics, and next generation lithography. Modern synthetic chemistry offers the possibility of designing these macromolecules with very specific length scales and geometries. Understanding the kinetics and thermodynamics of the block copolymer self-assembly process, in the bulk phase as well as in thin films, is a fundamental prerequisite necessary for exploiting these materials. The capability of precisely organizing these nanoobjects on appropriate substrates represents a valuable tool to exploit novel technological developments.

Block copolymer theory and simulation can provide new insights into the ordering mechanism and final structure. In coming years this area of research, at the intersection between fundamental science and technology, is expected to define new and innovative applications for these materials. EUPOC 2016 will offer a platform for discussing the main challenges facing this research field bringing together scientists, engineers and students working on every aspect of block copolymer self-assembly.

Scientific Program

The conference will be based on invited lectures, oral communications, and poster presentations.

Major topics will be:

- ❖ Synthesis of new block copolymers
- ❖ Theory and simulation
- ❖ Self-assembly for lithographic applications
- ❖ Directed self-assembly of block copolymers
- ❖ Metrology of block copolymers
- ❖ Advanced electronic, optoelectronic, photovoltaic and membrane applications

Confirmed speakers:

Thomas P. Russell (University of Massachusetts Amherst, USA)

Michael Sommer (University of Freiburg, Germany)

Jean-Francois Gohy (Catholic University of Louvain, Belgium)

Igor I. Potemkin (Moscow State University, Russia)

Christopher K. Ober (Cornell University, USA)

Michele Perego (CNR, MDM, Italy)

Paul F. Nealey (University of Chicago, USA)

Christine Papadakis (Technische Universität München, Germany)

Ulrich Steiner (Adolphe Merkle Institute, Switzerland)

Thomas Thurn-Albrecht (University of Halle, Germany)

Volker Abetz (Helmholtz Zentrum Geesthacht, Germany)

Raluca Tiron (CEA Let, Grenoble, France)

Claudio De Rosa (University of Naples, Italy)

Teruaki Hayakawa (Tokyo Institute of Technology, Japan)

Scientific Committee

Chairs: **Michele Laus** (Italy) & **Peter Müller-Buschbaum** (Germany)

Members: G. Galli, G. Di Silvestro, E. Martinelli, K. Sparnacci, G. Seguíni, V. Gianotti (Italy), E.M. Herzig, V. Körstgens, E. Metwalli, M. Philipp (Germany)

Secretariat

Maria G. Viola

Dipartimento di Chimica e Chimica Industriale - Università di Pisa

e-mail: mg.viola@unipi.it

Call for Papers

Those who wish to contribute a paper should email a **one-page PDF abstract by 20 March, 2016**, to mg.viola@unipi.it. Acceptance notifications will be sent by 6 April, 2016.

Registration

Registration fee*	Before 24 April, 2016	After 24 April, 2016
Full delegate**	€ 600	€ 650
AIM Member	€ 560	€ 610
Student**	€ 400	€ 450
AIM Member	€ 360	€ 410
Companion**	€ 250	€ 300

*including, for all delegates and registered companions: welcome party, wine & cheese party, social dinner, coffee breaks, and lunches from 22 through 26 May at Palazzo Feltrinelli.

**including compulsory AIM-membership fee for 2016 (a separate receipt will be issued).

To register, please complete the online Registration Form (AIM member or non-AIM member) not later than 20 March, 2016. The deadline for payment of the early registration fee is 24 April, 2016. Presenters of oral papers must pay their registration fee by **24 April, 2016**.

Venue & Accommodation

The conference will be held on 22–26 May 2016, at Palazzo Feltrinelli, situated directly on Lake Garda, via Castello 3, 25084 Gargnano (BS) (Italy).
(Tel +39-0365-711101, Fax +39-0365-72832).

Accommodation is to be directly reserved by the participants. Early booking is recommended.

Limited accommodation will be available at Palazzo Feltrinelli, the conference venue, mainly for students and young researchers, at a discount price. Please address requests to the conference secretary.

Cancellation Policy

A 50% reimbursement of the prepaid registration fee will be made available after the conference for cancellations received in writing by 10 May, 2016. No refunds will be possible after that date.