

Conference site: Serrano 119

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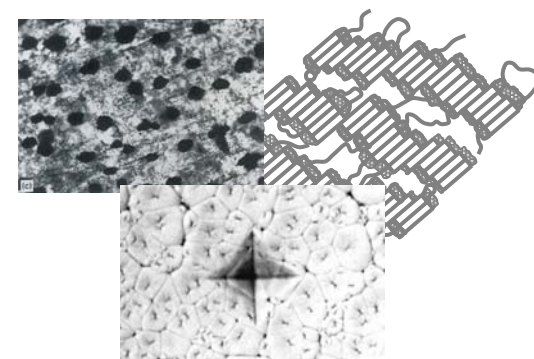
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*International Polymer Physics Meeting
To Honour
Prof. F. J. Baltá Calleja
on his 70th Birthday*



**“Advances in Nanostructure and
Physical Properties of Polymer Materials
and Nanocomposites”**

Madrid, 23rd-24th October 2006



**Instituto de Estructura de la
Materia**

Serrano 113, 119, 121, 123

<http://www.iem.cfmac.csic.es/fmacro/>

October 23rd

9:00 Welcome, *Prof. José V. García Ramos*, Director of the *Instituto de Estructura de la Materia, CSIC*.

9.10 Opening Remarks, *Prof. Francisco J. Baltá Calleja*.

Nanostructures and Crystallization Processes

9:30 The Essential Novelty brought to Crystallization by Linear Molecules

Prof. David C. Bassett, Univ. Reading

10:00 The Origin of Flow-Induced Crystallization in Entangled Polymer Melts

Prof. Ben Hsiao, Stony Brook Univ. NY

10:30 Crystal vs. Glass Formation in PET: hints from Dielectric, Mechanical and Nano-Structural analysis

Dr. Marco Pieruccini, CNR Messina

Coffee Break 11:00 – 11.30

11:30 Grazing-Incidence SAXS Studies of Nanostructures in Polymer Films

Prof. Wim de Jeu, Eindhoven Univ. Technol.

12.00 Benefits and Potentials of High Performance DSC (HPer DSC) for the Study of Crystallization and Melting of Polymers

*Prof. Vincent B. F. Mathot, SciTe The Netherlands
Katholieke Universiteit Leuven Belgium*

Academic Session

(in Spanish language)

12:30 *Prof. José V. García Ramos, Director of IEM.*

Lunch 13:30 – 15:30

Multicomponent Systems, Nanocomposites and New Polymer Materials

15:30 Multicyclic Polymers – A New Architecture

Prof. Hans R. Kricheldorf, Univ. Hamburg

16:00 Forced Assembly into Polymer Nanolayers: Creating Polymers Plus

Prof. Eric Baer, Case Western Reserve Univ.

16:30 Polypropylene/Carbon Nanofibre Composites by Hot Compaction

Prof. Ian M. Ward, Univ. Leeds

Coffee Break 17:00 – 17:30

17:30 Understanding the Polymer Interphase

Prof. Anne Hiltner, Case Western Reserve Univ.

18:00 Processing and Characterization of a Multi-Walled Carbon nanotube/Polyetherester (PBT/PTMO) Masterbatch and its Blends

Dr. Georg Broza, Technic. Univ. Hamburg-Harburg

18:30 In-situ Polycondensation Method of Polymer/CNT Nanocomposites Preparation

Prof. Zbigniew Roslaniec, Technic. Univ. Szczecin

October 24th

Properties and Deformation Processes

10:00 Relating Texture and Local Mechanical Properties of some Semicrystalline Polymers by AFM Nanoindentation

Prof. Stefano Piccarolo, Univ. Palermo

10:30 Effect of Particle Size and Size-Distribution on Mechanical Behaviour of Filled Thermoplastic Polymers

*Prof. Hans H. Kausch,
École Polytechnique Fédérale Lausanne*

Coffee Break 10:30 – 11:00

11:00 Nanomechanical Effects in Layered Polymer Systems
*Prof. Georg H. Michler,
Martin Luther Univ. Halle-Wittenberg*

11.30 Application of Polymer Membranes in Waste Water Treatment

*Dr. Axel Schönfeld,
Federal Institute for Environmental Science Berlin*

12.00 TEM dark field observation of the buildup and modifications of polymer single crystals

*Dr. Bernard Lotz,
Institute Charles Sadron Strasbourg*

12.30 Closing Session, *Dr. Tiberio A. Ezquerra*, Head of the Department of Macromolecular Physics, *Instituto de Estructura de la Materia, CSIC*.