

**European Network of Excellence (NoE)  
NANOFUN-POLY**  
Fourth Short Course on  
**RELAXATION PHENOMENA IN  
NANOMATERIALS**



**1<sup>st</sup> – 2<sup>nd</sup> September 2006**

**Organised by  
Consorzio Interuniversitario Nazionale per la  
Scienza e Tecnologia dei Materiali (INSTM) -  
Italy  
in collaboration with  
Department of Molecular Physics  
Technical University of Lodz**

**Introduction**

The European Network of Excellence (NoE) NANOFUN-POLY established in June 2004 with funding from the European Commission, has promoted the organisation of Short Courses on Nanostructured Materials.

For info on NANOFUN-POLY please visit the website [www.nanofun-poly.com](http://www.nanofun-poly.com)

**Purpose**

Relevant interest in nanosciences and nanotechnologies as new tools for developments in the European industrial sectors as well as for the creation of new nanotechnology-related industries has arisen only in the last few years. During that time, new methods for synthesis (combinatorial chemistry combined with high rate characterization methods, controlled radical polymerisation, supramolecular chemistry, etc.), processing (surface patterning, self-assembling, intercalation, etc.) and characterization techniques operating at different scales (atomic force microscopy, scattering techniques, etc.) were developed, leading to the creation of new and innovative devices and objects from nanostructured polymers and their nanocomposites. The availability of these tools and the necessity to further develop and spread knowledge to propose environment-friendly strategies, required for the production of polymer-based nanocomposites, justifies the creation of a research consortium by networking well-recognized inter disciplinary European research teams.

The Fourth Short Course will be focused on advanced topics of the relaxation phenomena in nanomaterials.

**Course programme**

The course language will be English. The course will consist of formal lectures and some informal sessions, time for questions and discussion.

The course will begin at 14:00 on Friday 1<sup>st</sup> September and end at 17:30 on February 2<sup>nd</sup> September.

**Lecturers**

The lecturers are all internationally recognised experts with many years' experience in their fields and extensive publications. All will be available for informal discussions throughout the course.

**G. Boiteux** (Lyon, France) "In-situ monitoring of structure evolution by dielectric spectroscopy"

**Y. Feldman** (Jerusalem, Israel) "Dielectric properties of biological systems"

**B. Hilczner** (Poznan, Poland) "Dielectric response of electroactive ceramic-polymer nanocomposites"

**J. Kenny** (Terni, Italy) "Electrical properties of polymer/nanotubes composites"

**F. Kremer** (Leipzig, Germany) "Introduction to Broadband Dielectric Spectroscopy"

**K. L. Ngai** (Washington, USA) "Interpreting the dynamics of nano-confined glass-formers and thin polymer films: importance of starting from a viable theory for the bulk"

**L. Okrasa** (Lodz, Poland) "Molecular dynamics in macromolecules with complex architecture"

**P. Pissis** (Athens, Greece) "Dielectric spectroscopy of nanocomposites"

**J. Pflieger** (Prague, Czech Rep.) "Special dielectrics for opto-electronics"

**P. Polanowski** (Lodz, Poland) "Simulation of complex liquid behaviour in ultra-thin layers"

**A. Schönhals** (Berlin, Germany) "Molecular dynamics in nanoconfined systems"

**M. Wübbenhorst** (Leuven, Belgium) "Molecular relaxations in ultra-thin polymer films"

## Who should attend?

The Course is open to PhD students and young researchers belonging to research groups both from inside and outside the NoE NANOFUN-POLY as well as to Industrial Researchers. Application fields that will benefit from the Short Course concern strategic industrial sectors which will enhance their competitiveness by using advanced technologies.

## Course location

Poznan is a flourishing city located in Western Poland, the capital of Wielkopolska Province. It is Poland's major business and banking centre. At the same time it is perceived as cultural, sports and recreation centre: [www.city.poznan.pl](http://www.city.poznan.pl)

Poznan is easily accessible by plane or train. The airport *LAWICA* in Poznan offers several international links. Travel time by train from Warsaw (300 km) and Berlin (280 km) is *ca* 3 hrs.

The course will be organised in the Conference Centre of the Institute of the Bioorganic Chemistry of the Polish Academy of Sciences at Wieniawskiego street No 17/19: located in the downtown of Poznan [www.ibch.poznan.pl/En](http://www.ibch.poznan.pl/En)



## Hotel reservation

Special offer for the Course participants is arranged in the Hotel *Ikar* located nearby the Conference Centre: single room with breakfast: 160 PLN per night; double room with breakfast: 220 PLN per night. This offer is valid until July 31<sup>st</sup>, with a password: IDS&DRD 2006.

Please contact directly Hotel *Ikar*, street Kosciuszki 118; 61-717 Poznan tel.: (+48) (0) 61 658 71 08, fax: (+48) (0) 61 851 58 67, e-mail: [rezerwacja@hotelikar.com.pl](mailto:rezerwacja@hotelikar.com.pl) ;

<http://www.hotelikar.com.pl/> ;

Many other hotels can be found on the city web site: <http://www.city.poznan.pl>

Accommodation in students dormitory located at street Sw. Rocha 11b (ca 25 min. walk or 10 min by bus or by tram) will be also available (9 euro for 1 night in double room, no breakfast, payment on place). Please, fill appropriate position in the registration form.

## Fees and registration

Apposite link for registration online are available in the NoE website:

[www.nanofun-poly.com](http://www.nanofun-poly.com)

The registration form is also available on web site [www.p.lodz.pl/k-32/ids\\_drp2006](http://www.p.lodz.pl/k-32/ids_drp2006) and can be sent by e-mail to [ids\\_drp2006@p.lodz.pl](mailto:ids_drp2006@p.lodz.pl)

The fee for the course is € 100.

The fee **includes** a complete set of course notes, lunch, course dinner and coffee breaks. It **does not include** hotel accommodation. **The fee must be paid before July 15<sup>th</sup>** (payable to Consorzio INSTM, see the details of payment in the registration form).

PhD students inside the network will participate to the Short Course free of charges.

**Please note that the number of places is limited to 60 on the basis of first arrived first served. Early registration is strongly advised.**

**Cancellation:** Before August 15<sup>th</sup>, full refund.  
**Substitutions may be made at any time.**

## Organisation

The Course is organised, on behalf of the NoE NANOFUN-POLY Steering Committee, by

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### Scientific committee:

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on site organisation.