

## Thermodynamics

6–8 April 2005, Sesimbra, Portugal

**Thermodynamics 2005** will be the 19th meeting in a series of thermodynamics conferences that are held approximately every two years. The meeting will be held 6–8 April 2005 in Sesimbra, Portugal—the first time the meeting will be outside the United Kingdom. The scope of the meeting will include classical thermodynamics and statistical mechanics. The chairman of the conference is J.P. Martin Trusler (Imperial College London, UK) and the local organizers are Eduardo Filipe and José Nuno Canongia Lopes (Instituto Superior Técnico, Lisbon, Portugal).

The conference will feature the 2005 Lennard-Jones Lecture, sponsored by the Royal Society of Chemistry and presented by Gerhard Schneider. In

addition, the Christopher Wormald Prize will be awarded to a research student nominated by members of the community. The winner will receive a cash prize and be given the opportunity to present the research work at the conference. The conference will feature the following topics:

- statistical thermodynamics and molecular simulation
- statistical mechanics of soft matter and complex fluids
- thermodynamic modelling and equations of state
- phase diagrams and supercritical fluids
- thermodynamics of oil, gas and industrial fluids
- mixtures and solutions
- experimental thermodynamics

 [www.thermodynamics2005.web.pt](http://www.thermodynamics2005.web.pt)

## Polymer Blends and Eurofillers

9–12 May 2005, Bruges, Belgium

The **8th European Symposium on Polymer Blends—Eurofillers 2005** will be held 9–12 May 2005 in Bruges, Belgium.

“Materials Design, Performance and Problem Solving” is the general theme of the symposium, which aims to stimulate discussion between specialities of complementary fields, including physicists, chemists and engineers, with expertise in both organic and inorganic materials. Design and synthesis of base materials is the very first step of innovation in materials and processes, followed by the search for synergy of appropriate combinations of those materials under different forms and shapes such as films, coatings, foams, packaging, and scaffolds. These have broad a range of applications including, and not limited to, electronics, energy, life sciences, technology, and the environment. Congress topics include the following

### Polymer Blends

- innovations in generation and control of phase morphology, including theoretical approach and numerical simulation
- reactive processing: reactive compatibilization, dynamic crosslinking, polymer chemistry in the melt

- interfaces and interphases: control, characterization and modelling
- structure-mechanical performance relationships
- specific polymer blends (including recycling) and their applications

### Fillers and Filled Polymers

- preparation and characterization of (nano)fillers of all shapes and functions
- formulations of (nano)fillers with polymers: nanocomposites, natural fiber composites, organic-inorganic hybrid materials
- adhesion between (nano)fillers and polymers
- structure-property relationships of (nano)composites, including confined crystallization issues
- industrial applications of filled polymers in the automotive, electronic, biomedical and packaging areas

The program offers two plenary lectures and 12 keynote lectures and contributed oral presentations, which will be selected from abstracts submitted.

See **Mark Your Calendar** on page 43 for contact information

 [www.polymerblends-eurofillers2005.com](http://www.polymerblends-eurofillers2005.com)

