



Joint European Thermodynamics Conference

JETC 10

Niels Bohr Institute
University of Copenhagen
22–24 June 2009



Welcome to Copenhagen

On behalf of the JETC 10 organization, I would like to welcome you to Copenhagen for the 10th anniversary of JETC in June 2009.

My intention for the conference is twofold, to provide a meeting ground for thermodynamicists from all of Europe and surroundings, and to show that thermodynamics is far from being a complete polished subject, useful only as a tool to evaluate chemical and thermal processes. On the contrary, thermodynamics is vibrant with new ideas and methods, receiving inspiration from other fields of science as well as providing inspiration to such other fields, e.g. general optimization theory, fluid dynamics, and ecological modeling.

All kinds of thermodynamics are welcome at the conference.

The Ilya Prigogine Prize in Thermodynamics will be bestowed on a promising young researcher in thermodynamics for his/her Ph.D. dissertation for the fifth time during this conference.

If this entices you and you would like further information when registration opens, please have a look at the conference website

www.jetc10.fys.ku.dk

and sign up.

Focus areas

Thermodynamics at the meso- and microscopic level

This would include thermodynamics of nano structures, of elemental electronic components, and of individual macro molecules.

Thermodynamics of agglomerated systems

This would include thermodynamics of entire organelles like mitochondria and muscle fibers, and thermodynamics of extremely complex system like entire animals or plants and of an ecosystem building on the ability of thermodynamics to extract a few crucial parameters from a huge chemical soup.

Advanced uses of thermodynamics in engineering

E.g. the use of thermodynamics in the entire chain from designing a molecule with particular properties, suggesting a practical path of synthesis, through designing the process equipment, to analysis of stability and control of the process. Generating reliable property data, experimentally as well as theoretically, is a crucial part of this.

Conceptual thermodynamics

This covers foundations of thermodynamics, new definitions of “old” quantities, connections to statistical mechanics, generalized entropy, chaos, complex systems, teaching of thermodynamics, and much more.

Bjarne Andresen

Ilya Prigogine Prize in Thermodynamics

The Ilya Prigogine Prize is endowed with an amount of 2000 Euros in addition to a diploma. The prize honors Ph.D. dissertations/theses or equivalent work defended or published between January 2007 and January 2009. All aspects and branches of thermodynamics are considered, from applied and experimental to the most theoretical.

Historical

This prize, organized by the European Center for Advanced Studies in Thermodynamics (ECAST), was patronized by the Nobel Prize laureate Ilya Prigogine personally while he was alive. Every two years, it is bestowed on a promising young researcher in thermodynamics. Its calendar is linked to that of the Joint European Thermodynamics Conference.

Selection

The applications will be examined by a selection committee of about ten scientists from different European countries.

Conferral of the 2009 Prize

The prize will be conferred solemnly during the JETC 10 meeting. The recipient will on this occasion give an oral presentation of his/her work. The candidates will be informed of the results by the end of April 2009.

Deadline: February 14, 2009.

For further details, see the full announcement at www.jetc10.fys.ku.dk.

Scientific committee

- » Bjarne Andresen, NBI, U Copenhagen, Denmark
- » Dick Bedeaux, NTNU, Trondheim, Norway
- » Gian Paolo Beretta, U Brescia, Italy
- » Danièle Clause, UTC, Compiègne, France
- » Alexis De Vos, U Gent, Belgium
- » Walter Fürst, ENSTA, Paris, France
- » A. Yalcin Gögüs, TU Havacilik Bolumu Ankara, Turkey
- » Bernard Guy, École des Mines, Saint-Étienne, France
- » Karl Heinz Hoffmann, TU Chemnitz, Germany
- » Sten Bay Jørgensen, DTU, Lyngby, Denmark
- » David Jou, Autonomous U Barcelona, Spain
- » Signe Kjelstrup, NTNU, Trondheim, Norway
- » Maria Eugenia Macedo, U Porto, Portugal
- » Wolfgang Muschik, TU Berlin, Germany
- » Bernd Noack, TU Berlin, Germany
- » Jean-Karl Platten, U Mons, Belgium
- » Colin Pritchard, U Edinburgh, UK
- » Miguel Rubi, U Barcelona, Spain
- » Peter Salamon, SDSU, USA
- » Stanislaw Sieniutycz, Warsaw U Technology, Poland
- » Daniel Tondeur, CNRS, Nancy, France
- » Antonio Valero, U Zaragoza, Spain

Location

The conference will be held at the H. C. Ørsted Institute of the University of Copenhagen where part of the Niels Bohr Institute is located:

H. C. Ørsted Institutet
Universitetsparken 5
DK-2100 Copenhagen Ø
Denmark

Calendar

Date	Event
1 February 2009	Submit online registration and abstract
14 February 2009	Application for Prigogine prize
1 March 2009	Response to authors for abstracts accepted
1 May 2009	Hotel reservation
1 May 2009	Payment of conference fee
22 June 2009	JETC 10

Local organizing committee

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