

Organisers

The organisers of the Numerical Heat Transfer 2015 are:

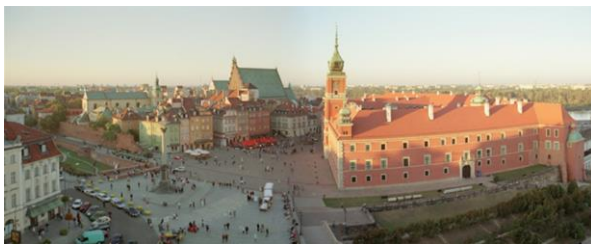
- Institute of Thermal Technology (ITT), Silesian University of Technology (SUT), Gliwice, Poland,
- Institute of Heat Engineering (IHE), Warsaw University of Technology (WUT), Warsaw, Poland.

Chairs:

- Andrzej J. NOWAK - Institute of Thermal Technology, Gliwice, Poland
- Jerzy BANASZEK - Institute of Heat Engineering, Warsaw, Poland
- Božidar ŠARLER - University of Nova Gorica (UNG), Nova Gorica & Institute of Metals and Technology (IMT), Ljubljana, Slovenia

Venue

NHT 2015 will be held in Warsaw, capital of Poland, in the seat of the Institute of Heat Engineering, the Warsaw University of Technology.



Participants of the **NHT 2015** can also right after the conference have the benefit of enjoying the *Inaugural Concerts* of the

17th Fryderyk Chopin International Piano Competition. Performing artists are: **Martha Argerich** and **Garrick Ohlsson**.

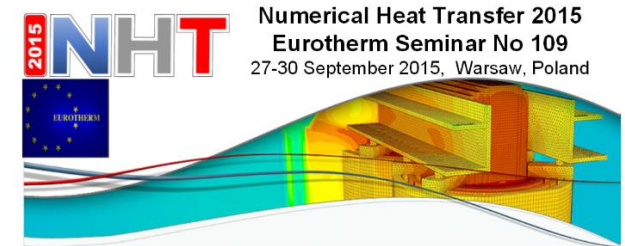
Details related to the 17th Fryderyk Chopin International Piano Competition can be found at the following web address:
www.konkurs.chopin.pl/en/edition/xvii

Call for papers

Prospective speakers are invited to submit Abstracts in PDF format using online Abstract submission system as soon as possible but **no later than 10th May 2015** (please use password and username entered during registration). Please indicate which topic you are submitting the Abstract for. An e-mail confirming your submission will be sent to you shortly. Abstract will be reviewed by Scientific Committee and the acceptance will depend upon result of the reviewing process.

The **full paper** is expected **by 30th July 2015**. The submission of the full paper is not mandatory but highly recommended - a set of contributed papers will be selected by the Scientific Committee for post-conference publication in the Special Issues of the **International Journal of Numerical Methods for Heat & Fluid Flow (IJNMHFF)** and **Computer Assisted Methods in Mechanics and Science (CAMES)**.

Registration fee includes: participation in all the scientific sessions, Book of Abstracts, Conference Proceedings on CD ROM, refreshments during breaks, lunches, welcome reception, Conference Banquet, all the social events.



NHT 2015

Organised by



ITT Gliwice
Silesian University
of Technology



IHE Warsaw
Warsaw University
of Technology

The web address:

www.nhtconf.org

Conference secretariat

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About Eurotherm

The **EUROTHERM Committee** was formed in Brussels on 16 October 1986 following an initiative taken at the 8th International Heat Transfer Conference in San Francisco earlier that year. The aim of EUROTHERM is to promote and foster European cooperation in Thermal Sciences and Heat Transfer by gathering together scientists and engineers working in specialised areas.

Objectives

In last decades the substantial and undisputed increase in the use of mathematical methods for modelling in many branches of natural and engineering sciences can be observed. Among a great variety of problems that have successfully been coped with are the thermal problems themselves as well as their coupling with other multiphysics phenomena. Such approach is also stimulated by growing offer of user friendly commercial software making thermal analyses efficient and accurate.

The objective of the **Numerical Heat Transfer 2015** is to provide a forum for the presentation of new approaches to the numerical solutions of heat transfer problems. Methods of interest include all well established and efficient numerical techniques like finite volume method, finite elements and boundary elements. Special attention is paid to complex thermal problems from engineering practice, solved by hybrid methods and their coupling to multiphysics processes.

The **Numerical Heat Transfer 2015** is of importance to all scientists, engineers and PhD students who are actively involved in

developing innovative approaches, as well as in solving a variety of industrial problems. This conference will also create favourable conditions for establishing and strengthening of scientific links between Western and Eastern research communities.

Conference topics

The scope of the NHT2015 will encompass all topics related to computer modelling and numerical methods applicable to heat transfer phenomena including multiphysics situations:

- conjugate heat transfer models
- inverse thermal problems
- shape optimisation
- heat transfer in bio-medical engineering
- multiphase phenomena
- advanced numerical techniques
- industrial applications
- meso and nano scale heat transfer problems
- heat, mass and momentum transfer in environmental engineering
- reacting flows and heat transfer
- large scale energy systems
- phase change problems
- thermal radiation
- interaction of temperature fields with stress and electromagnetism
- benchmarks for numerical heat transfer software
- other thermal problems

Keynote lectures

The scientific program will include number of keynote lectures delivered by leading scientists on selected topics. Details can be found on conference web page.

Scientific committee

- J. Banaszek - Warsaw University of Technology, Poland
- R.A. Białycki - Silesian University of Technology, Poland
- A. Bogusławski - Czestochowa University of Technology, Poland
- L. Dombrovsky - Joint Institute for High Temperatures, Russia
- S.M. Drobniak - Czestochowa University of Technology, Poland
- D.B. Ingham - University of Sheffield, UK
- Y. Jaluria - The State University of New Jersey, Rutgers, USA
- P. Furmański - Warsaw University of Technology, Poland
- A.J. Kassab - University of Central Florida, USA
- T.A. Kowalewski - Polish Academy of Sciences, Poland
- R.W. Lewis - Swansea University, UK
- M. Li - Taiyuan University of Technology, China
- W. Lipinski - The Australian National University, Australia
- N. Massarotti - Università di Napoli "Parthenope", Italy
- M.P. Mengüç - Ozyegin University, Turkey
- A.V. Nenarokomov - Moscow State Aviation Institute, Russia
- E. Oñate - Technical University of Catalonia, Spain
- H.R.B. Orlande - Federal University of Rio de Janeiro, Brazil
- A. Robinson - Trinity College Dublin, Ireland
- B. Šarler - University of Nova Gorica (UNG), Nova Gorica & Institute of Metals and Technology (IMT), Ljubljana, Slovenia
- L. Škerget - University of Maribor, Slovenia
- B. Sundén - Lund University, Sweden
- I. Szczygieł - Silesian University of Technology, Poland
- J. Szymd - AGH University of Science and Technology, Poland
- J. Taler - Cracow University of Technology, Poland
- T. Wiśniewski - Warsaw University of Technology, Poland
- L.C. Wrobel - Brunel University, UK