

Nanoscale and Microscale Heat Transfer V

September 26-30, 2016
Santorini, GREECE

Eurotherm Seminar No 108

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.

<http://www.eurothermcommittee.eu>

Venue

The Eurotherm seminar 108 is organized by LEMTA under the auspices of Société Française de Thermique and will be held at the Petros M. Nomikos Conference Centre situated at Fira, the capital of Santorini island in GREECE.

Fira is known for its unique view over the caldera and the volcano of Santorini, with a history over 4000 years. Santorini is one of the most beautiful islands of archipelago of Cyclades, situated in the southern Aegean Sea. Santorini is located approximately 200 km (120 miles) southeast of Athens. It can be easily accessed by plane (direct flights from Athens, and a lot of European cities: London, Brussels, Zurich, Vienna, Paris, Oslo, Amsterdam).



Organizing Committee

K. Termentzidis
D. Lacroix
G. Pernot
L. Chaput
X. Zianni
M. Isaiev

Secretariat

K. Termentzidis and D. Lacroix
LEMTA, UMR 7563, Un. Lorraine and CNRS
2, Avenue de la Forêt de Haye, TSA 60604
54518 Vandoeuvre les Nancy cedex,
France
Phone: +33.3.83.59.57.57
E-mail: eurotherm108-contact@univ-lorraine.fr

Organized by



Laboratoire d'Énergétique et de Mécanique
Théorique et Appliquée



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 UNIVERSITÉ
DE LORRAINE



GDR CNRS 2508
Thermal NanoSciences and NanoEngineering

Scientific scope and topics

This seminar will present the state of the art and the modern trends in nanoscale and microscale heat transfer. It will focus on:

1. Conductive heat transfer at short scales of length and time
2. Thermal radiation at subwavelength scale
3. Heat and mass transfer in nanofluids and biomedical applications

The main topics of the seminar are:

- Phonon, electron, mass transport
- Thermal Metrology at Micro/Nanoscales
- Computational Methods in Micro/Nanoscale Transport
- Heat and Mass Transfer in Small Scale
- Nanofluids
- Micro/Nanoscale Interfacial Transport Phenomena
- Micro/Nanoscale Boiling and Condensation Heat Transfer
- Micro/Nanoscale Thermal Radiation
- Micro/Nanoscale Energy Devices and Systems
- Micro/Nano-Thermal Manufacturing and Materials Processing
- Thermoelectricity/thermophotovoltaics
- Biomedical Applications of Micro/Nanoscale Transport

Keynote lectures

The confirmed invited speakers are:

- **D.G. Cahill**, Univ. of Illinois at Urbana-Champaign, USA
<http://www.matse.illinois.edu/faculty/Cahill.html>
"Plasmonic thermometry and plasmonic probes of ultrafast evaporation/condensation"
- **K. Joulain**, Un. of Poitiers, France
<http://www.pprime.fr>
"Thermal rectification with phase change materials and quantum systems"
- **P. Keblinski**, Rensselaer Polytechnic Institute, USA
<http://mse.rpi.edu/faculty/pawel-keblinski>
"Modeling of Evaporative Processes via Molecular Simulations"
- **D. Poulikakos**, ETH Zurich, Swiss
<https://www1.ethz.ch/ltnt/people/poulikakos>
"Colloids printing, surface micro-nano structuring in interactions with liquids"
- **D. Jaque**, Un. Autonoma de Madrid, Spain
<https://sites.google.com/site/fluorescenceimaginggroup/>
"In vivo applications of luminescence nano-thermometry"
- **A. Togo**, Un. Kyoto, Japan
<http://cms.mtl.kyoto-u.ac.jp/tanaka-e.html>
"First-principles lattice thermal conductivity calculations and phonon database"

Scientific Committee

Chairs:

- K. Termentzidis**, LEMTA-CNRS, Nancy, France
- D. Lacroix**, LEMTA-Un. Lorraine, Nancy, France
- X. Zianni**, TEI of Sterea Ellada, Greece

Members:

- P. Ben-Abdallah**, Institut d'Optique, Orsay, France
- O. Bourgeois**, Institut Néel, Grenoble, France
- D. Cahill**, Dep. Materials Science and Engineering, Un. Illinois, U.S.A
- P.-O. Chapuis**, CETHIL, INSA-Lyon, France
- L. Chaput**, LEMTA-Un. Lorraine, Nancy, France
- D. Donadio**, UC Davis, USA
- S. Gomes**, CETHIL, INSA-Lyon, France
- K. Joulain**, Institut P', Poitiers-Futuroscope, France
- P. Keblinski**, Rensselaer Polytechnic Institute, Troy, NY, USA
- A. Kittel**, Un. Oldenburg, Germany
- V. Lyenko**, INL, INSA-Lyon, France
- J. Lukes**, University of Pennsylvania, U.S.A.
- M. Martin-Gonzalez**, IMM, Spain
- S. Merabia**, Intitute Lumière Matière, Lyon 1, France
- N. Papanikolaou**, Demokritos, Greece
- B. Perrin**, INSP – Univ. Paris 6, France
- D. Poulikakos**, ETH Zurich, Swiss
- C. Sotomayor**, ICN2, Spain
- R. Vaillon**, CETHIL, INSA-Lyon, France
- S. Volz**, EM2C, Châtenay-Malabry, France

Practical information

Website: <http://eurotherm108.scientific-event.com>

Please visit the Conference information, abstract submission and registration pages on the website.

Instructions for authors: paper selection will be based upon a reviewed abstract of 1 page. Abstracts should be prepared according to the template provided at the conference website. It should clearly state the purpose, the methodology, the results and the conclusions of the work. Abstracts should then be sent to the email address: eurotherm108-contact@univ-lorraine.fr. Both oral and poster contributions are accepted. About 50 oral contributions will be selected and poster sessions will be organized. The authors of the selected oral presentations could accept or decline publication of 4 pages proceeding article in the **J. of Physics: Conference Series**

Abstract due: **April 15, 2016**
Notification of acceptance: **June 1st, 2016**
Article due: **October 15, 2016**



Registration fees

Student: 400 €

Regular: 600 €

Include: lunches, coffee breaks, conference gala dinner and VAT.

Opening of the website: **January 15th, 2016**

Registration on site.