



CHT-12: ADVANCES IN COMPUTATIONAL HEAT TRANSFER

The International Centre for Heat and Mass Transfer is pleased to announce CHT-12, the 5th International Symposium on Advances in Computational Heat Transfer, to take place during **1-6 July, 2012**.

The Symposium will jointly sponsored by ICHMT, the University of Bath and the University of New South Wales, Australia.

CHT-12 will be held as a tribute to the memory of the late Professor Eddie Leonardi, co-founder of this series of CHT symposia, who was a former Chair of the Executive Committee of ICHMT, and a former Director of the CFD Research Laboratory of UNSW. It will be in recognition of his innumerable contributions to computational fluid dynamics and heat transfer.

OBJECTIVE

The goal of the symposium is to provide a forum for the exchange of ideas, methods and results in computational heat transfer. Papers on all aspects of CHT – both fundamental and applied – will be welcome. Topics will include but are not limited to:

Biological heat transfer
Boundary layer flow and heat transfer
Combustion and fire modelling
Computational methods
Double diffusive convection
Energy
Forced Convection
Internal flow and heat transfer

Materials processing
Micro and nanoscale heat transfer
Natural convection
Radiative heat transfer
Single and multiphase flow and heat transfer
Solidification and melting
Turbulent heat transfer
Turbulence modelling
Verification and Validation

SCIENTIFIC PROGRAMME

The scientific programme will comprise **invited lectures** presented by distinguished researchers, **contributed papers** which will be presented in poster sessions and a **mini-symposium** on “Computational Heat Transfer in Biological Systems”. Further details will be announced on the CHT-12 website.

In addition, an **Open Forum** session will give authors an opportunity to present new work, or work in progress, which is not yet ready for review. Presentations on future directions or neglected problems in CHT will be particularly welcome.

PRESENTATION AND PUBLICATION

Papers will be selected for presentation and publication on the basis of a one-page initial abstract (which will be quickly assessed to ensure relevance) followed by a review of the papers themselves. Publication will be by Begell House Inc. on a CD and in the Begell Electronic Data Center.

Papers of archival quality may be submitted for publication in one or more special issues of the Begell House journal *Computational Thermal Sciences*.

Details of the journal submission process may be found on the symposium website.

THE COMPUTATIONAL THERMAL SCIENCES EDITORS' BEST PAPER AWARD

An Award will be given by the Editors in Chief of the Begell House journal Computational Thermal Sciences (CTS) to the best paper co-authored and presented by a graduate student or post-doctoral student as the first author (the co-authors may be senior). It is required that the paper be submitted to the special issue of CTS for CHT-12. The Award will consist of \$ US 500 and a certificate.

SCHEDULE OF DATES

One page abstract due: November 15, 2011
Abstract acceptance: December 15, 2011
Full text of paper due: January 30, 2012
Paper acceptance subject to amendment: April 1, 2012
Final acceptance: May 1, 2012
Early registration deadline and final payment date for publication in Proceedings: May 15, 2012
CHT-12 1-6 July 2012

LOCATION

The Symposium will take place at the University of Bath in the World Heritage City of Bath, England.



The attractions and museums in Bath and beyond take you on a trip through time: from the world famous

Roman Baths and the Jane Austen Centre (a shrine to the city's most famous resident), to the Victoria Art Gallery, Bath Abbey, the Royal Crescent and the Circus, and the Fashion Museum. And in Bath's surrounding countryside you can enjoy a day out to the stately home, Safari Park and other attractions at Longleat, 22 km away or you may take a 44 km trip to Stonehenge. In neighbouring Bristol one may find Isambard Kingdom Brunel's famous Clifton Suspension Bridge and the S.S. Great Britain, the first ocean-going iron ship with a screw propeller.

ACCESS TO BATH

Bath may be reached easily by bus or train from both London Heathrow and Birmingham International Airport in two to three hours. London Gatwick requires extra journey time. Delegates from continental Europe may find Bristol International Airport more convenient.

INTERNATIONAL SCIENTIFIC COMMITTEE

Brian Milton, University of NSW, Australia (Chair)
Eric Arquis, Université de Bordeaux, France
Rabi Baliga, McGill University, Canada
Tracie Barber, University of NSW, Australia
Masud Behnia, University Of Sydney, Australia
Rachid Bennacer, ENS-Cachan, France
Neima Brauner, Tel-Aviv University, Israel
John Chai, The Petroleum Institute, UAE
Ping Cheng, Shanghai Jiaotong University, P.R. China
Pedro J M Coelho, Inst Superior Técnico, Portugal
Gianni Comini, Università di Udine, Italy
Renato Cotta, Univ. Federal de Rio de Janeiro, Brasil
Leonid A Dombrovsky, Russian Academy of Sciences
Rod Douglass, Los Alamos National Lab, USA
Mohamed El Ganaoui, University of Nancy, France
Tatiana Gambaryan-Roisman, Darmstadt University of Technology, Germany
Kemo Hanjalic, TU Delft, The Netherlands.

Mohammed Hasnaoui, Université Cadi Ayyad,
Morocco

Peter Heggs, Leeds University, UK

Masaru Ishizuka, Toyama Prefectural University, Japan

Yogesh Jaluria, Rutgers, New Jersey, USA

Boris Kosoy, Odessa State Acad. of Refrig'n, Ukraine

Djamel Lakehal, ASCOMP GmbH, Switzerland

Stephane Lassue, University of Artois, France

Joon Sik Lee, Seoul National University, Korea

Patrick Le Quéré, Université Paris-Sud, France

Gordon Mallinson, Univ of Auckland, New Zealand

Christophe Ménézo, Université Lyon 1, France

Josua Meyer, University of Pretoria, South Africa

Jingchun Min, Tsinghua University, China

Yasutaka Nagano, Nagoya Inst of Technology, Japan

Akira Nakayama, Shizuoka University, Japan

Cong Tam Nguyen, University of Moncton, Canada

Perumal Nithiarasu, Swansea University, UK

Patrick H. Oosthuizen, Queen's University, Canada

Goon-Cherl Park, Seoul National University, Korea

Darrell W Pepper, Univ. of Nevada, Las Vegas, USA

John Reizes, Univ. of Technology Sydney, Australia

Gary Rosengarten, University of NSW, Australia

Nevin Selçuk, METU, Turkey

Michael Strelets, St Petersburg State Tech Univ, Russia

Victoria Timchenko, University of NSW, Australia

Richard KK Yuen, City University of Hong Kong

REGISTRATION

The symposium registration fees will be € 400 if paid before May 15, 2012; € 450 for advance registration after that date and € 500 on-site. This will cover participation in all technical sessions, a welcome reception and the CD-ROM Proceedings. Full-time students will pay € 75 subject to proof of status.

Some financial support will be available for students and young researchers from the developing countries, and to others with demonstrated financial difficulties. Application should be made *via* the website.

ACCOMMODATION

Information about accommodation in the University Halls of Residence may be found on the Symposium website.

SOCIAL EVENTS AND TOURS

A welcome reception will take place in the Bath Guildhall on the evening of Sunday July 1 and the conference banquet will be held in Bath's Assembly Rooms on Thursday July 5. On Wednesday afternoon, several technical and general tours will be arranged.

ORGANISING COMMITTEE

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Stuart MacGregor (*University of Bath*)

Michele Meo (*University of Bath*)

Michael Patterson (*University of Bath*)

Michael Wilson (*University of Bath*)

CORRESPONDENCE

To ensure that your name is on the e-mailing list for future announcements, please complete and submit the pre-registration form online at the Symposium website:

<http://www.ichmt.org/cht-12>

Please check the website frequently for the latest information.

ABSTRACT and PAPER SUBMISSION:

Abstracts and papers should be sent by email to:

cht12@unsw.edu.au

INTERNATIONAL CENTRE FOR HEAT AND MASS TRANSFER

The International Centre for Heat and Mass Transfer (ICHMT) was established in 1968. It is an international, professional, non-governmental, non-profit organization. The general objective of the Centre is to promote and foster international cooperation in the science of heat and mass transfer and its applications. Its secretariat is located at the Mechanical Engineering Department of Middle East Technical University (METU), and is supported by METU.

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The ICHMT web page provides information about other activities of the Centre:

<http://www.ichmt.org/>

5th INTERNATIONAL SYMPOSIUM ADVANCES in COMPUTATIONAL HEAT TRANSFER



1 – 6 July, 2012
Bath, England

<http://www.ichmt.org/cht-12>