



Engineering Conferences International

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HEAT TRANSFER AND FLUID FLOW IN MICROSCALE

September 25 – 30, 2005

Il Ciocco, Castelvechio Pascoli (Tuscany), Italy

CONFERENCE SYNOPSIS

The conference objective is to address the state-of-the-art knowledge in the field of heat transfer and fluid flow in microscale. Recent development of industrial applications like microelectronics, laser systems, micro-heat exchangers, micro-devices (sensors and actuators), and power MEMS have led to studies dealing with microscopic behaviour of thermal phenomena.

Main areas of interest:

- Heat transfer (single-phase, boiling, condensation)
- Fluid flow (single- and two-phase flow)
- Two-phase flow (flow modes, visualization)
- Advanced miniaturized systems (micro heat pipe, micro heat exchanger, micro reformer, micro combustor)
- Power MEMS (micro engines, micro batteries, micro fuel cells, micro pumps)
- Experimental measurement techniques (accuracy and precision)
- Micro sensors and micro actuators

The presence of specialists coming from academia and industry will be a fair opportunity to promote interesting exchanges in advanced experimental and theoretical techniques and to go deep into the knowledge of thermal phenomena related to microscale level.

CONFERENCE ORGANIZATION

The *Conference Chair* is **Dr. Gian Piero Celata**, ENEA Casaccia, Institute of Thermal Fluid Dynamics, Via Anguillarese 301, 00060 Santa Maria di Galeria, Rome, Italy, tel.: +39 06 3048 3905; fax: +39 06 3048 3026; E-mail: celata@casaccia.enea.it

The *Conference Co-Chairs* are **Prof. Satish G. Kandlikar**, Mechanical Engineering Department, Rochester Institute of Technology, Rochester, NY, 14623-0889 U.S.A., tel.: +1 716 475 6728; fax: +1 716 475 7710; E-mail: sgkeme@rit.edu, **Prof. Nobuhide Kasagi**, The University of Tokyo, Department of Mechanical Engineering, Bunkyo-ku, Tokyo 113-8656, Japan, tel.: +81 3 5841 6417; Fax: +81 3 5800 6999; E-mail: kasagi@thtlab.t.u-tokyo.ac.jp, and **Prof. John R. Thome**, Ecole Polytechnique Fédérale de Lausanne (EPFL), Laboratory of Heat and Mass Transfer, Faculty of Engineering Science, Swiss Federal Institute of Technology Lausanne, CH-1015 Lausanne, Switzerland, tel.: +41 21 693 59 81, fax: +41 21 693 59 60, E-mail: john.thome@epfl.ch.

The *Conference Scientific Secretary* is **Dr. Giuseppe Zummo**, ENEA Casaccia, Institute of Thermal Fluid Dynamics, Via Anguillarese 301, 00060 Santa Maria di Galeria, Rome, Italy, tel.: +39 06 3048 4567; fax: +39 06 3048 3026; E-mail: zummo@casaccia.enea.it

Call for Abstracts

Abstracts should be submitted electronically following the instructions given in www.engconfintl.org/5ah.html. If unable to submit the abstract electronically, please contact the ECI (info@eci.poly.edu).

1 March 2005

25 April 2005

31 May 2005

Deadline for submission of electronic abstracts

Notification of Acceptance

Deadline for submission of full-length manuscripts