

Short Course on BOILING HEAT TRANSFER AND BOILING EQUIPMENT

Lausanne, Switzerland, 11-15 October 2010

will be held on the campus of the EPFL located in Lausanne, Switzerland (see <http://www.epfl.ch/index.fr.html>). Previous editions were held in Udine (2005), Darmstadt (2006), Pisa (2007), Lausanne (2008), and Darmstadt with large participation.

The objective of this course is to provide the participants with today's detailed knowledge on the boiling heat transport mechanisms based on recent research results and the most updated methods for the prediction of boiling heat transfer, its enhancement, and its applications to technological and industrial areas. Specific attention will be paid to the description and prediction of the critical heat flux, which represents the upper limit of the boiling heat transfer and has to be avoided for safety reasons. Boiling of mixtures, which is of paramount importance for industrial applications such as retrofitting of existing plants will be treated exhaustively. Application to compact heat exchangers will be dealt with special care in view of the industrial interest towards this component, while the very recent application of boiling heat transfer to microscale, including microstructured surfaces, which allow very high heat transfer rates for specific applications, will be treated in great detail.

The course is addressed to scientists, professionals, engineers in the several fields of Engineering, Applied and Fundamental Sciences with specific interest in phenomena involving boiling (process industry, refrigeration industry, energy production, heat exchanger manufacturers, etc.) who want to get acquainted with the traditional background and the most recent developments of this discipline.

Furthermore, the course is addressed to Ph.D. students and post-doctoral researchers involved in this area of research.

A team of 6 experts gives all the lectures at the course. This is an excellent opportunity to get introduced or updated on the field of boiling heat transfer.

Any information on the course description, with hotel booking details, registration form and payment forms (credit card and bank transfer), travel information, etc., is posted in internet at:

<http://termserv.casaccia.enea.it/boiling-course-2010/>

Hope to see you there

Best regards

Peter Stephan
Gian Piero Celata
Paolo Di Marco
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John R. Thome
Vishawas Wadekar