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Announcement for 26th series of Short Courses on

Modelling and Computation of Multiphase Flows
Part I: Bases
Part IIA: New Reactor Systems and Methods
or
Part IIB: Computational Multi-Fluid Dynamics (*CMFD*)
Part III: *CMFD* with Commercial Codes

Zurich, Switzerland, 9-13 February 2009

Hosted by the Swiss Federal Institute of Technology (ETH) in Zurich, Switzerland

Multiphase flows and heat transfer with phase change are of interest to researchers and engineers working in power, nuclear, chemical-process, oil-and-gas, cryogenic, space, bio-medical, micro-technology, and other industries. Courses similar to this one have been offered at ETH-Zurich continuously since 1984; some 1500 participants attended the Zurich courses. Over the years, the courses have continuously evolved, reflecting on-going progress and developments.

The courses are organized in a modular form as intensive introductory courses for persons having basic knowledge of fluid mechanics, heat transfer, and numerical techniques (a tutorial text is e-mailed to the participants before the course), but also serve as advanced courses for specialists wishing to obtain the latest information.

Part I, Bases, covers the common background material and emphasises the latest modelling and computational aspects of multiphase flows.

Part IIA, New Reactor Systems and Methods, covers multiphase flow topics of particular interest to nuclear engineers. This module reviews some of the most recently proposed advanced reactor designs (including reactors considered for near-term implementation and those in Generation IV) and some of the multiphase phenomena of importance in these designs. This module also introduces the state-of-the-art and beyond in modelling and simulation methods for core design and accident analysis.

Part IIB, Computational *Multi*-Fluid Dynamics (*CMFD*), reflects the growing interest in the application of CFD techniques to *multi*-phase flows; it is continuously updated to cover the most common new computational techniques.

Part III, *CMFD* with Commercial Codes, is attached to both Parts IIA and IIB. The participants will have the possibility to meet the main commercial code developers and discuss their products for both nuclear and other applications.

Course language: English

Lecturers: S. Banerjee, D. Bestion, M.L. Corradini, G. Hetsroni, G.F. Hewitt, D. Lakehal, Simon Lo, H.-M. Prasser, G. Scheuerer, G. Tryggvason, S. A. Vasquez, G. Yadigaroglu and S. Zaleski.

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