



Announcement for 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, March 12–16, 2007

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, micro-technology, and other industries. Courses similar to this one have been offered in the past at Stanford University, the University of California-Santa Barbara, and for 23 years now at ETH-Zurich; well over 1300 participants attended the Zurich courses.

The courses are organised in a modular form as intensive introductory courses for persons having basic knowledge of fluid mechanics, heat transfer, and numerical techniques, 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.

The **New Reactor Systems and Methods** part IIA reviews some of the most recently proposed advanced reactor system designs (including those in Generation IV) and introduces the state-of-the-art and beyond in modelling and simulation methods for core design and accident analysis.

The module IIB on **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 most new computational techniques.

The **CMFD with Commercial Codes** module III 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.

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, S. A. Vasquez, G. Yadigaroglu and S. Zaleski.

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