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Announcement for Short Courses on

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

Zurich, March 22–26, 2004

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. 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** has been updated again and modified to emphasise the latest modelling and computational aspects of multiphase flows. Flows in micro-channels and molecular dynamics have been added this year.

The **New Reactor Systems and Methods** part reviews the most recently proposed advanced reactor system designs (such as 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 on **Computational Multi-Fluid Dynamics (CMFD)** reflects the growing interest in the application of CFD techniques to multi-phase flows. The module has been expanded this year to cover most new computational techniques.

Course language: English.

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