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Announcement for a Short Course on
Fundamental of multiphase flow modeling
August 18–29, 2003

*Norwegian University of Science and Technology, Department of Petroleum Engineering and Applied Geophysics,
Trondheim 7491 Trondheim, Norway*

Main lecturer: Professor Yehuda Taitel, Tel Aviv University
Additional Lecturers: NTNU and Industry Guest Lecturers

Description

The basic framework for modeling a wide variety of gas-liquid flow problems is now well understood, much having been completed in recent years. This course will present this modern approach in sufficient detail so that those attending can apply the results to problems of design. In addition, this should prepare the participant to understand the new literature, which emerges in the years to come.

The course will present the basic ideas of mechanistic modeling and the roll of flow pattern in the prediction of the flow and heat transfer parameters. Considerable efforts will be dedicated to the understanding of transient analysis and numerical schemes, which are the basis of modern numerical simulation of transient two-phase flow.

Problem sessions are included in which the ideas developed in the course are applied to design. Extensive course notes and references on all materials presented will be provided.

For the benefit of industry participants the course will be divided into two distinct parts, a theoretical part at the first week followed by the application part including classroom exercises and final examination.

For more details see: http://www.ipt.ntnu.no/~mgolan/Multiphase-Description_2003_V4.html

Or contact

Professor Michael Golan

Tel.: +47-73-59-49-25

E-mail address: mgolan@ipt.ntnu.no

or

Dr.ing Candidate Hu Bin

Tel.: +47-73-59-49-75

E-mail address: hubin@ipt.ntnu.no