

Wednesday 24 July

Modelling Stratified Flows

- Holdup, pressure drop, heat transfer

Modelling Horizontal Slug Flows

- Hydrodynamics, frequency, heat transfer

Modelling Annular Flows

- Falling and rising films (hydrodynamics, heat transfer)
- Wave motion
- Interfacial shear and friction

Thursday 25 July—Modelling Flow and Heat Transfer at 1 g in Vertical Tubes and at 0 g

- Bubble flow
- Annular flow
- Natural slug flow
- Modelling for zero gravity flows
- Terrain induced slugging
- Transient flows: the two-fluid and the drift flux models

Friday 26 July—Modern Measuring Methods

- Flow pattern detection
- Drop and bubble size and velocity
- Film thickness and wave structure
- Heat transfer parameters

Arrangements

The course fee is US\$800.00, including notes, coffee and a class dinner. Limited accommodation is available at the University of Houston Hotel and at area motels and hotels.

Checks should be made payable to University of Houston TPF Course, and should be sent with your reservation to:

Mrs Pat Cooks
Department of Chemical Engineering
University of Houston
Houston, TX 77204-4792, U.S.A.

The last day for reserving space on the course is **22 June 1991**.

MODERN DEVELOPMENTS IN BOILING HEAT TRANSFER AND TWO-PHASE FLOW

Rensselaer Polytechnic Institute, Troy, New York, U.S.A.

8–12 July 1991

A seminar will be held at Rensselaer on important new advances in multiphase science and their engineering applications. The seminar is intended for scientists and engineers working in the field of multiphase flow and heat transfer.

Topics to be covered in this seminar include:

- Two-fluid modeling techniques
- Wave propagation in two-phase flow
- Applied fractal & chaos theory

- Boiling heat transfer applications and augmentation
- Electronic cooling and microgravity phenomena
- Phase distribution & separation phenomena
- Nonequilibrium phase change
- Two-phase flow dynamics and instabilities
- Evaporation of thin liquid films
- Fouling effects

The lecturers at this seminar are authorities in the field. They include:

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|---------------------|---------------------------|
| ● Dr A. E. Bergles | ● Dr R. T. Lahey Jr |
| ● Dr D. A. Drew | ● Dr M. Z. Podowski |
| ● Dr M. K. Jensen | ● Dr E. F. C. Somerscales |
| ● Dr O. C. Jones Jr | ● Dr P. C. Wayner Jr |

The registration fee is US \$1150. This fee covers all lecture notes, breakfasts, luncheons and banquets during the seminar. For further information contact:

Office of Continuing Education
Rensselaer Polytechnic Institute
Troy, NY 12180-3590
U.S.A.
Tel.: (518) 276-8351