

## ANNOUNCEMENT

### TWO-PHASE FLOW AND ITS APPLICATIONS

A five-day short course to be held on campus in Santa Barbara, 27–31 August 1984  
presented by  
University of California Extension, Santa Barbara  
in cooperation with the  
Department of Chemical and Nuclear Engineering, University of California, Santa Barbara

#### *The program*

Two-phase flow and heat transfer continue to focus the attention of researchers and to frustrate and challenge the engineer in the chemical, nuclear, oil-and-gas, cryogenic and other industries. New data and information, ideas and hypotheses, and facts and erroneous theories continue to be produced.

The objective of the course is to provide the practicing engineer or researcher with:

- A condensed and critical view of present knowledge, including areas of uncertainty, in two-phase flow, boiling and condensation.
- Sources of data and correlations.
- Design philosophy and methods.

#### The course features:

- A program of coordinated lectures by experts in the field (Eighteen 1½-hr lectures).
- A complete set of lecture notes distributed prior to course discussions.
- Movies and slides to illustrate physical phenomena.
- Limited enrollment.

#### *The lecturers*

SANJOY BANERJEE, Professor and Chair-Elect, Department of Chemical and Nuclear Engineering, University of California, Santa Barbara.

JAMES P. BRILL, Director of Tulsa University Fluid Flow Projects (TUFFP) and Professor of Petroleum Engineering at Tulsa University.

GAD HETSRONI, Danciger Professor of Engineering at Technion-Israel Institute of Technology, Haifa and Director of the S. Neaman Institute for Advanced Studies in Science and Technology, Israel.

GEOFFREY F. HEWITT, Head of the Engineering Sciences Division, Harwell Laboratory, England.

RAJ SARDESAI, Research Engineer, Heat Transfer Research Inc., Alhambra, California.

JERRY TABOREK, Technical Director, Heat Transfer Research Inc., Alhambra, California.

GEORGE YADIGAROGU, Professor of Nuclear Engineering, Swiss Federal Institute of Technology, Zurich, Switzerland.

#### *Program schedule*

##### *Monday, 27 August*

Introduction and Flow Regimes—G. F. Hewitt  
Basic Quantities and Thermodynamics—G. Hetsroni  
Basic Conservation Equations—S. Banerjee  
Modelling Equations for Practical Applications—S. Banerjee

##### *Tuesday, 28 August*

Thermodynamics of Multicomponent Systems—R. Sardesai  
Pressure Drop and Void Fraction—G. F. Hewitt  
Pool and Convective Boiling—G. Yadigaroglu  
Burnout—G. F. Hewitt

##### *Wednesday, 29 August*

Computational Methods—S. Banerjee  
Two-Phase Flow in Pipelines I—J. P. Brill  
Two-Phase Flow in Pipelines II—J. P. Brill  
Post-Burnout and Reflood Heat Transfer—G. Yadigaroglu

##### *Thursday, 30 August*

Steam Generating Equipment—G. Hetsroni  
Boiling Equipment in the Process Industry—J. Taborek  
Fundamentals of Condensation—R. Sardesai  
Condensation Equipment—J. Taborek

##### *Friday, 31 August*

Mechanical and Corrosion Problems in Phase Change Equipment—G. Hetsroni  
Instabilities in Boiling and Condensation Equipment—G. Yadigaroglu  
Program concludes at noon.

*Enrollment and housing information*

Times and Dates: 8:30 AM–5:00 PM Mon–Thurs; 8:30 AM–12 Noon Friday 27–31 August 1984

Location: Room 1104, Engineering Building, University of California, Santa Barbara

Fee: \$795 (includes course notes and parking)

EDP No: 41023

Registration is requested by 10 August 1984. To request space after this date, call (805) 961-4143. No refunds will be granted after this date unless the program is cancelled. Reservations will be accepted if an official letter indicating attendance and the completed enrollment form are received prior to 10 August. In this case, fees may be hand delivered.

A block of guest rooms has been reserved at the Sheraton Santa Barbara Hotel and Spa. Reservations for guest rooms must be received by 29 July. Special rates have been arranged at \$80 per day for single occupancy rooms and \$85 for double. To reserve rooms, please call (805) 963-0744 and identify yourself with the "Two-Phase Flow" group. Shuttle bus to the University will be provided.

For further information on the program, enrollment or housing, contact the Department of Science & Management, UCSB Extension, Santa Barbara, CA 93106, ATTN: Paula Hughes, or phone (805) 961-4143.

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 ENROLLMENT APPLICATION

Name \_\_\_\_\_ Day Phone \_\_\_\_\_

Company/Agency \_\_\_\_\_ Soc. Sec. # \_\_\_\_\_

Address \_\_\_\_\_

City, State, Zip \_\_\_\_\_

Mail to: UCSB Extension, Santa Barbara, CA 93106  
 Make checks payable to: Regents of the University of California

TWO-PHASE FLOW EDP 41023  
 FEE: \$795