

# ANNOUNCEMENT

## INTERNATIONAL SUMMER SCHOOL

### HEAT AND MASS TRANSFER IN TURBULENT BOUNDARY LAYERS

(Herceg-Novi, Yugoslavia—9–21 September, 1968)

#### ORGANIZED BY

The Boris Kidrič Institute of Nuclear Sciences,  
Beograd  
The Yugoslav Federal Nuclear Energy Commission  
The Yugoslav Society of Heat Engineers

#### WITH THE SUPPORT OF

The Yugoslav Federal Council for the Co-ordination of Scientific Activities  
The Council for Scientific Research of the Socialist Republic of Serbia  
The International Atomic Energy Agency, Vienna  
The Association for International Heat Transfer Conferences

and participation of Scientific institutions from Canada, France, U.K., U.S.A., U.S.S.R. and Yugoslavia

#### PROGRAMME

A list of the lecturers and the titles of their lectures is given below.

In addition to the lectures a number of short communications will be included in the programme.

#### 1. *Single-phase turbulent boundary layer*

A. FORTIER (University of Paris, Paris): Asymptotic theory of the turbulent boundary layer.

M. A. GOLDSHTIK (Thermal Physics Institute, Novosibirsk): Vortex flow and mass transfer in the flow separation region.

A. A. GUKHMAN (Institute of Chemical Engineering, Moscow): General problems of the theory of similarity in single-phase boundary layer.

J. P. HARTNETT (University of Illinois, Chicago):

Influence of a starting length on heat transfer in turbulent boundary layers in the presence of mass transfer.

M. R. HEAD (University of Cambridge, Cambridge): Heat transfer in the turbulent boundary layer with injection and pressure gradient.

S. S. KUTATELADZE (Thermal Physics Institute, Novosibirsk): Theory of the boundary layer with disappearing viscosity in single and two-phase flows.

A. I. LEONT'EV (Thermal Physics Institute, Novosibirsk): Calculation methods of the turbulent boundary layer based on the limiting laws.

J. MATHIEU (University of Lyon, Lyon): Perturbed boundary layers.

W. B. NICOLL (University of Waterloo, Waterloo): A method for the prediction of turbulent boundary-layer development based on the shearwork-integral.

B. S. PETUHOV (Institute of High Temperatures, Moscow): Heat transfer in the vicinity of the critical single-phase region.

M. RIDJANOVIĆ (University of Sarajevo, Sarajevo): The boundary-layer instability and formation of the turbulence.

D. B. SPALDING (Imperial College, London): A general method for predicting friction, heat transfer and mass transfer in two-dimensional boundary layers.

V. V. STRUMINSKY (Pure and Applied Mechanics Institute, Novosibirsk): Non-linear theory of stability of the boundary layer.

J. H. WHITELAW (Imperial College, London): Some applications of the general theory of friction, heat transfer and mass transfer in two-dimensional boundary layers.

Z. ZARIĆ (Boris Kidrič Institute of Nuclear

Sciences, Beograd-Vintcha): Turbulent characteristics measurements near a heated wall.

## 2. Two-phase turbulent boundary layer

N. AFGAN (Boris Kidrič Institute of Nuclear Sciences, Bograd-Vintcha): Boiling heat transfer of binary mixtures.

T. L. PEREL'MAN (Heat and Mass Transfer Institute, Minsk): Description of heat-transfer processes in essential non-isothermal systems.

W. M. ROHSENOW (Massachusetts Institute of Technology, Cambridge): Post-burnout heat transfer to mist flow.

R. SEMERIA (Centre for Nuclear Studies, Grenoble): The transport mechanism and the structure of a two-phase layer in the vicinity of a heated wall.

M. A. STYRIKOVICH (Institute of High Temperatures, Moscow): Heat and mass transfer in the boiling boundary layer.

N. ZUBER (New York University, New York): (Title of the lecture to be announced later).

### TIME AND PLACE

The International Summer School will take place at the Nuclear Centre of the Federal Nuclear Energy Commission at Herceg-Novi from 9th to 21st September 1968. The sessions will be held in the morning and afternoon every day according to the following time-table:

#### Morning Sessions

8.30–10.00	lecture
10.00–10.30	break
10.30–12.00	short communications and discussion

#### Afternoon Sessions

5.00–6.30	lecture
6.30–7.00	break
7.00–8.00	short communications and discussion

### LANGUAGES

The official languages will be English, French and Russian with simultaneous translation into these languages and Serbo-Croatian.

### REGISTRATION FEE

The registration fee is U.S. \$100 or an equivalent amount of the national currency of the participant at the official exchange rate of the country concerned. The registration fee will ensure:

the use of simultaneous translation;  
the text of the lectures and abstracts of communications in the original language of the author before School starts;  
a one-day excursion to be organized by the School;  
dinner prepared by the School.

### ACCOMMODATION

Accommodation is available in the Nuclear Centre at Herceg-Novi which includes several comfortable hotel-type buildings. The Organizing Committee has booked the full capacity of the Nuclear Centre for the participants but in case the number of applications exceeds the booked facilities, some of the nearby hotels will be engaged.

### LADIES' PROGRAMME

A special ladies' programme will be organized; it will include short trips, town and surrounding touring with visits to interesting spots.

### ORGANISING COMMITTEE

#### CHAIRMAN

NAIM AFGAN (Boris Kidrič Institute of Nuclear Sciences).

#### MEMBERS

PREDRAG ANASTASIJEVIĆ (Boris Kidrič Institute of Nuclear Sciences).

DOBROSAV MILINČIĆ (University of Beograd).

MIRAN OPREŠNIK (University of Ljubljana).

MUHAMED RIDJANOVIĆ (University of Sarajevo).

VIKTOR SALJNIKOV (University of Beograd).

IVAN TURK (University of Zagreb).

SLAVKO VRHOVAC (The Yugoslav Federal Nuclear Energy Commission).

ZORAN ZARIĆ (Boris Kidrič Institute of Nuclear Sciences).

### EXECUTIVE SECRETARY

BRANKO JOVIĆ (Boris Kidrič Institute of Nuclear Sciences).