ANNOUNCEMENTS

THIRD SYMPOSIUM ON TURBULENT SHEAR FLOWS

(9–11 September 1981)

University of California, Davis

Purpose

The Symposium aims to advance understanding of the physical processes of turbulent motion and the capabilities for predicting momentum, heat or mass transport in turbulent shear flows.

Sessions

Approximately 20 formal sessions and panel discussions are planned. Contributed papers are welcome in the following general areas:

Fundamentals. New theories and concepts or measurements that illuminate the nature of turbulence.

Turbulence models. New developments within the framework of classical single- or two-point closures.

Heat and pollutant transport. Particular emphasis on the physics of scalar transport by turbulence whether passive or coupled through buoyancy or other agencies.

Combustion. Physical aspects of turbulence effects on premixed and diffusion flames.

Numerical schemes. New and improved numerical methods for calculating turbulent flows.

Applications. Turbulent flow calculation schemes applied to problems of engineering importance. The 3rd Symposium will focus particular attention on time-dependent phenomena in turbulence.

Abstracts

Papers selection will be based upon a reviewed, extended abstract of at least 1000 words which should be typed double-spaced and state clearly the purpose, results and conclusion of the work with supporting figures as appropriate. Five copies of the abstract should be submitted to:

Professor F. W. Schmidt, Secretary Turbulent Shear Flow Symposium
Department of Mechanical Engineering
The Pennsylvania State University
University Park, Pennsylvania 16802, U.S.A.

Deadlines

Final date for receipt of abstracts: December 1, 1980
Authors informed concerning acceptance: April 1, 1981
Final date for receipt of camera-ready manuscripts: July 15, 1981

A bound copy of all papers will be presented to those attending the Symposium.

3rd Symposium papers committee

J.-C. Andre
Meteorologie Nationale, France

I. S. Gartshore
University British Columbia, Canada

B. E. Launder
University of Manchester, Inst. of Science and Technology
England

P. A. Libby
University of California, San Diego
U.S.A.

J. H. Whitelaw
Imperial College, England

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L. H. Back	P. N. Joubert
H. A. Becker	J. L. Lumley
P. Bradshaw	O. Martynenko
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J. J. D. Domingos	H. McDonald
C. du Pont Donaldson	R. J. Moffat
R. Dumas	Y. Mori
H. Fiedler	K. Owen
V. S. Goldschmidt	W. C. Reynolds
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A. K. M. F. Hussain	J. Wyngaard

Organizing committee

L. J. S. Bradbury
University of Surrey
England

F. Durst
University of Karlsruhe
West Germany

B. E. Launder   F. W. Schmidt   J. H. Whitelaw

IUTAM SYMPOSIUM ON HIGH TEMPERATURE GAS DYNAMICS

(14–18 September 1981)

To be held at Liblice Castle (near Prague), CSSR

THE SERIES of lectures of this Symposium will be concerned with the results of scientific research work on: Dynamics of gases heated to temperatures generating multicomponent fluid systems of physical, chemical or physico-chemical nature (ionised and dissociated medium, combustion etc.). The lower limit of temperature is usually about 2000 K.

It is planned that the Symposium will deal with the following problems:

(a) wide range of velocities—from low speed flows to flows at high Mach numbers;

(b) working fluids dissociated or ionised; chemically reacting systems (including burning); molecular flow; multiphase systems;

(c) other conditions—the presence of electric or magnetic fields and heat and mass transfer.

These flows may find technical or research applications such as, e.g.

channel, nozzle and orifice flows,
shock tubes, wind tunnels, etc.,
gas-dynamic lasers,
chemical, atomic reactors,
plasmagenerators and almost all types of combustors,

MHD channels,
flight and high Mach numbers.

Address correspondence to:
M. Pichal
Chairman of Scientific Committee
Institute of Thermomechanics
Czechoslovak Academy of Sciences
Praha 6, Puskinovo nam.. 9
Prague, Czechoslovakia

On the contrary it is proposed that problems of the cosmical, astrophysical and extreme-temperature plasma gasdynamics and gas-dynamics of explosions will be omitted.

SECOND NATIONAL SYMPOSIUM ON NUMERICAL METHODS IN HEAT TRANSFER

Sponsored by the National Science Foundation and the Office of Naval Research

(28–30 *September* 1981)

To be held at University of Maryland, College Park, Maryland

Scope
Six sessions are planned:
  (1) Finite Difference Method
  (2) Finite Element Method
  (3) Comparison of Finite Difference Methods and Finite Element Methods
  (4) Numerical Convective Instability
  (5) Other Numerical Methods
  (6) Applications to Heat Transfer Problems

Abstracts
  * Prospective presentations which lie within the aforementioned scope are advised to stress also at least one of the following subjects: (a) improvement of existing methods (b) assessment of numerical properties such as stability, convergence and error bounds, (c) introduction of a novel scheme and (d) comparison of not less than two methods used to solve the same physical problem.
  * Three copies of an abstract of approximately 1000 words describing the definition, formulation, method(s) and sample results of the work should be submitted to:

Professor Tein-Mo Shih
Department of Mechanical Engineering

University of Maryland
College Park, MD 20742
Phone: (301)454-2408

Deadlines
Receipt of abstracts: March 1, 1981
Informing authors of acceptance: April 1, 1981
Receipt of final manuscripts: August 1, 1981
The conference proceedings will be published after the conference. Papers edited in the proceedings are presentations revised to incorporate reviewers' comments and judged to be of permanent value.

Organizing committee
I. Babuska, Univ. of Maryland at College Park; J. deRis, Factory Mutual Research; D. K. Edwards, UCLA; B. A. Finlayson, Univ. of Washington at Seattle; H. B. Keller, Cal. Tech.; W. J. Minkowycz, Univ. of Illinois at Chicago Circle; S. V. Patankar, Univ. of Minnesota; S. F. Shen, Cornell Univ.; T. M. Shih, Univ. of Maryland at College Park; D. B. Spalding, Imperial College of Sci. & Tech.; E. M. Sparrow, Univ. of Minnesota; C. L. Tien, Univ. of California at Berkeley; K. T. Yang, Notre Dame Univ.