7th INTERNATIONAL SYMPOSIUM ON APPLICATIONS OF LASER TECHNIQUES TO FLUID MECHANICS

Lisbon, Portugal

11–14 July 1994

The symposium will present new research on laser techniques for flow measurements and results of significance to fluid mechanics. It will emphasize the application of laser techniques to scientific and engineering investigations of fluid flow. Contributions to the theory and practice of laser methods will be accepted where they facilitate new improved fluid mechanical investigations by laser methods including laser-Doppler anemometry, particle sizing and other methods for the measurement of velocity and scalars, such as particle image velocimetry and laser induced fluorescence.

Organizing committee

R. J. Adrian, University of Illinois, Urbana, IL, U.S.A.
D. F. Durão, Instituto Superior Técnico, Lisbon, Portugal.
F. Durst, University of Erlangen, Erlangen, Germany.
M. V. Heitor, Instituto Superior Técnico, Lisbon, Portugal.
M. Maeda, Keio University, Yokohama, Japan.
J. H. Whitelaw, Imperial College, London, England.

Sessions

Approximately 40 formal and open forum sessions are planned. Contributed papers are welcome in the following areas:

- Turbulent flows
- Unsteady flows
- Hydrodynamic and aerodynamic flows
- Reacting flows
- Two-phase flows
- High-speed flows
- Particle sizing
- Development of optical and electronic instrumentation for laser anemometry
- Whole field velocimetry
- Optical methods for temperature, density, concentration
- Imaging methods for scalar fields

The format will involve presentations and structured discussions. Workshops on specialist topics will be arranged to stimulate informal discussions. Possible topics will include:

- Accurate measurement in supersonic flows
- Data range of validated signals in laser anemometry
- Long-range velocimetry
- Zoological and biological fluid flow studies

Abstracts

Paper selection will based upon an extended abstract of not less than 500 words, which should be typed double-spaced and state the purpose, results and conclusions of the work with supporting figures as appropriate. Four copies of the abstract should be submitted to:

LADOAN-7
c/o Professor M. V. Heitor
Department of Mechanical Engineering
Instituto Superior Técnico, Av. Rovisco Pais
1096 Lisbon Codex, Portugal
Tel. 351-1-847 34 53/4; *Fax.* 849 61 56/849 92 42

Deadlines

Final date for receipt of abstracts	**17 December 1993**
Authors informed concerning acceptance	**5 March 1994**
Final date for receipt camera-ready manuscripts	**15 May 1994**

Proceedings

All papers accepted for presentation will be incorporated in a proceedings volume, which will be available at the time of the symposium. It is intended that a bound volume will be subsequently published and will contain a selection of extended papers.