

## PREFACE

### TENTH INTERNATIONAL CONGRESS ON NUMERICAL METHODS IN LAMINAR AND TURBULENT FLOW

The tenth international congress on numerical methods in laminar and turbulent flow was held at Swansea in July 1997. Numerous high quality papers were presented by researchers coming from all over the world. Although the presented papers deal with a very wide variety of applications that cover a large part of the domain of CFD, a main heading under which numerous papers can be placed appears in the proceedings. The title of the heading could be *Advanced applications: a quantitative comparison of experimental and numerical results*. By the way, it is not surprising to see that the topic of the 4th World Conference in Applied Fluid Dynamics, which was held in Freiburg in June 1998, is: *Computational and Experimental Methods, Validation, Quality and Reliability*.

Turbulent flow in a U-bend, for which experimental data is readily available, laminar flow in a helicoidal duct (results can be compared either with the approximate solution given by Dean or with experimental data), Taylor–Couette flows, which have been studied by numerous researchers all over the world, annular swirling flows, are the topics of some of the papers presented in this special issue. The time when CFD will not only improve the design but also help in predicting *new* physics is in sight if not yet here.

Although numerous papers presented at the meeting were of very high standard, only a limited amount could appear in the special issue of *Numerical Methods in Fluids*. The editors of *Numerical Methods in Fluids* sincerely thank the authors and the reviewers for their help in making this issue possible.

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