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Preface

This special issue of the European Journal of Mechanics B-Fluids contains a selection of invited papers from authors who gave presentations at the 9th EUROMECH European Turbulence Conference held in Southampton, UK, in July 2002 (ETC-9). Some 180 oral papers were given at the conference. Session Chairs were asked to suggest, on the basis of the best papers in their sessions, possible contributors to an EJM/B special issue. Twelve authors, from a selected list of around 25, agreed to prepare papers and it is these which are contained herein. (Many of the invited, keynote lecturers and those selected by Session Chairs were, not surprisingly, already in the process of publishing full length, extended papers elsewhere so elected not to contribute to this special issue). Each of the papers published here embodies new and extended material from that originally presented at ETC9 and each has been critically reviewed for EJM/B in the usual way, i.e., by two or three independent referees.

The papers represent a snapshot of the kind of subject matter covered at the European Turbulence Conferences. In fact, eight of the ten major topic areas are present here, with theoretical, numerical (DNS & LES) and experimental approaches included. Three of the keynote lecturers provided papers (Chomaz, Biferale and Dowling) and two of the papers are in the form of reviews (Dowling and Barenghi). Unlike many conferences and journal issues, however, there are no papers on Reynolds-averaged turbulence modelling. Other meetings cover that issue very well but the objective of the ETCs, rather, is to bring together mathematicians, engineers and physicists working on fundamental aspects of turbulent flows; this emphasis is naturally reflected in this special issue.

The editors are grateful to the session chairs and to the individual authors who have made this special issue possible. It is our hope that readers will not only get a general flavour of the European Turbulence Conferences but also find much of specific interest within these pages.

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