

## Dedication

# Professor Wolfgang Rodi–Professor D. Brian Spalding

This Special Issue of the Journal is dedicated to two major contributors to CFD who, between the ‘live’ ETMM5 Conference and the appearance of these highlights, have each passed significant milestones in their lives.



Professor Wolfgang Rodi, who celebrated his 60th birthday on September 30th, 2002, has, over his academic career, made important contributions to developing and applying models of turbulent transport in industrially challenging flows. He obtained his Dipl. Ing. from the University of Stuttgart in 1966 and spent a year at the University of Minnesota before settling at

Imperial College for doctoral and post-doctoral research, the former on 2-equation turbulence models, the latter on stress-transport schemes. He returned to Germany in 1973 to begin what is now a 30-year association with the Institut für Hydromechanik at the University of Karlsruhe, being promoted to a professorship there in 1981. His research has naturally included many studies in hydrodynamics but his interests in fluid mechanics range much wider: over the years he has contributed some 200 publications to the technical literature including many fine papers on flow over gas-turbine blades and to industrial aerodynamics. Over the past decade his interests have shifted from solving the Reynolds equations to large-eddy simulations in which field he has established himself as one of the leading European exponents.

Besides his research, Professor Rodi is widely known and appreciated for his contributions to the community. Within the European Research Community on Flow, Turbulence and Combustion (ERCOFTAC) he served for five years as chairman of the Scientific Programme Committee prior to accepting the role of deputy chairman of ERCOFTAC in 1999. He has filled editorial roles with both the ASCE Journal of Hydraulic Engineering and Experimental Thermal Fluids Science

Journal before becoming an editor of Flow, Turbulence and Combustion in 1998. Readers may especially associate him with the conference series on Engineering Turbulence Modelling and Measurements which he founded and which he has most carefully steered around a succession of very agreeable Mediterranean venues. He firmly believed that if one chose an attractive location in summer one could be sure to attract an abundance of high quality papers—and so it has proved!

Rodi’s first paper on Turbulence Modelling was published in 1970, co-authored with his Ph.D. supervisor, Professor D.B. Spalding. Shortly before Rodi’s arrival at Imperial College, Brian Spalding had completed a changeover in his group’s research from integral methods to finite-volume strategies, a methodology that was, to a large extent, pioneered by his group. This abrupt shift in research (by no means the first in his career) was to have far-reaching consequences. In the five-year period from 1967 to 1972 he led his team in the publication of two books on general (albeit 2-dimensional) finite-volume solvers for parabolic and elliptic flows, another on turbulence modelling and papers on two quite different numerical strategies for 3-dimensional flows. He also founded one of the first CFD software companies, CHAM. While the group in those early days never used the term ‘computational fluid dynamics’ anyone today seeking the origins of CFD must surely conclude that the vision, ingenuity and organizational skills of Brian Spalding in those early years laid the foundations and, indeed, much of the superstructure, for the edifice of CFD as it now exists.

Professor Spalding held the Chair of Heat Transfer at Imperial College for 30 years from a very youthful 35 until his retirement in 1988. His achievements have been recognized by many international awards including the Max Jakob Medal of the ASME (1978), the Medaille d’Or of the Institut Français



de l'Energie (1980), and the Luikov Medal of the International Centre of Heat and Mass Transfer (1986). Besides being elected a Fellow of both the Royal Society (1983) and the Royal Academy of Engineering (1989), he was also admitted to membership of the Royal Norwegian Society of Sciences and Letters and the Academies of Science of both Russia and the Ukraine. He was a founding Editor of both the International Journal of Heat and Mass Transfer (1960–1992) and PhysicoChemical Hydrodynamics (1978–1989). He also served as Chairman of the Scientific Programme Committee of ERCOFTAC (1988–1991) and on his retirement was made an Honorary President of that

organization. Despite celebrating his 80th anniversary on January 9th, 2003, he is still leading CHAM in exploring new areas of CFD and undertaking a major lecture tour of Russia.

To both of our dedicatees, the International Journal of Heat and Fluid Flow expresses its appreciation of their past contributions and wishes them many productive years ahead.

Nobuhide Kasagi  
Brian Launder  
Frank Schmidt  
*Editors-in-chief*