



Preface

The Twelfth International Heat Transfer Conference was held in Grenoble, France, on August 18–23, 2002. Thirty-two keynote lectures were presented and over five hundred general papers were discussed in poster sessions. The keynote lectures and the general papers were included in a CD-ROM given to each attendee. The Editors-in Chief of the International Journal of Heat and Fluid Flow have selected six of the keynote lectures for inclusion in a special issue of the Journal. The lectures, which were expanded and updated, were externally reviewed according to the usual Journal practice.

The size effects on microscale fluid flow and heat transfer are discussed in the first paper. The papers which follow provide detailed discussions of specific flows including buoyancy-driven vortex flow in mixed convection, enhancement of heat transfer in highly viscous flow by chaotic advection and the wake stability of flow behind a heated cylinder. A statistical and experimental study of the mechanism that governs slug flow along a pipe is presented. The special issue concludes with a discussion of recent developments in laser interferometry for measurement of two- and three-dimensional temperature fields to determine local convection heat flux.

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