



## Preface

This special issue of the IJHFF is devoted to papers that were first presented at the third International Symposium on Advances in Computational Heat Transfer (the complete proceedings of which are published as *CHT'04: Advances in Computational Heat Transfer III*, G. de Vahl Davis, E. Leonardi (Eds.), Begell House, New York, 2004). The Symposium was held on board the MS Midnatsol, a Hurtigruten coastal steamer, during its voyage down the Norwegian coast between Kirkenes and Bergen in June 2004. The latitude of Kirkenes, 70°N, meant that the weather was inevitably cold but, fortunately, sunny and the venue provided opportunities for both professional interaction and tourism among the 114 conferees from 31 countries.

The theme of “computational heat transfer” at the conference was directed much more at industrial problems—in many cases at very complex industrial flows and processes, often involving phase change—than is the usual coverage of the IJHFF. We have intentionally retained that emphasis in this selection of some of the best of the 104 papers presented at the meeting. For this archival edition, authors have been invited to add their most recent results and to expand their contributions, where appropriate, to give the added perspective that so often comes from an intense discussion of the paper with one’s peers. Thereafter all papers have been re-reviewed in line with the usual IJHFF practice. We hope that this resulting compendium provides a valuable overview for our readers of the application of computational methods for convective heat transfer to a spectrum of challenging industrial flows.

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