# Preface

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**Biographical notes:** Stein Tore Johansen is a Principal Scientist at SINTEF and Adjunct Professor at the Norwegian University of Science and Technology (NTNU). He obtained his Master's Degree in Fundamental Physics in 1981 and the Doctor of Technology, on dispersed two-phase flow modelling, in 1990. His current research focuses on reactive multiphase flows, turbulence, heat and mass transfer and prediction tool development for various process industries.

J.E. Olsen is a Senior Scientist in the Flow Technology group at SINTEF Material and Chemistry, Department of Process Technology. He has a Master Degree in theoretical Physics (1992), and a PhD in Mechanical Engineering (1997). His fields of research include multiphase flows in industrial processes.

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This special issue of Progress in Computational Fluid Dynamics has a collection of scientific papers documenting the wide field of applications for CFD as presented at the 8th International Conference on Computational Fluid Dynamics in the Oil & Gas, Metallurgical and Process Industries. The conference was hosted by SINTEF and the Norwegian University of Science and Technology in Trondheim, Norway 21-23 June 2011. It was truly an international conference with 130 participants representing 22 nations. There were 96 technical presentations and 6 keynote lectures at the conference. They were organized in sessions such as multiphase pipe flows, fluidized beds, population balance, oil & gas applications, furnace modeling and more. A special topic at this conference were biomechanics focusing on fluid flow and modeling on phenomena such as blood flow, hearth mechanics and larynx dynamics often involving fluid structure interactions. Two papers from these sessions are seen in this special issue.

The guest editors would like to thank our staff for organizing the conference and all presenters and reviewers for ensuring a high quality conference.