Preface

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This special issue of the Flow, Turbulence and Combustion Journal is dedicated to the topic of Sustainable Combustion. The polysemic nature of the vocable “sustainable” demands a clarification. Sustainable is equated here to an endeavor conducted with rigor and rationality. When trying to find an appealing and fashionable name for the Combustion Conference, held in Tenerife (Spain) from June 16 to 18, 2010, which was the origin of the nine papers included in this issue, one member of the Organizing Committee suggested the qualifier “sustainable” to accompany the main conference topic, “Combustion”. After some hesitation, and for the sake of avoiding conflicts with most frequent users of this adjective, it was decided to utilize it with the precise meaning as explained above.

Combustion research is far from a mature subject and the papers included in this issue attest to the vitality of this field and open many perspectives. The selected contributions cover a range of subtopics, from basic studies of flames in laminar flows and turbulence/chemistry interaction models, to numerical simulations of non-premixed flames and soot, experimental and computational works relevant to gasification technologies, engines and gas turbines.

After the Tenerife Conference, contributors were encouraged to submit detailed manuscripts. Every submitted paper has undergone a review in accordance with the Journal’s procedures. The Editors would like to thank the authors and the reviewers for their timely response and rigorous work to make this a valuable reference issue in the field of combusting flows.

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