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International Conference on Compressors and their Systems

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Foreword

The 10th International Conference on Compressors and their Systems will be held at City, University of London from 9th to 13th September 2017. As Conference Chairman, I wish you a warm welcome to this event in our newly refurbished campus in Northampton Square.

This series of conferences started in 1999, then organised by the Fluid Machinery Group of the Institution of Mechanical Engineers (IMechE). Since 2009 it has been managed by City, University of London. This year, the conference has been organised, not only with the IMechE, but also with the IOR (Institute of Refrigeration) and the IIR (International Institute of Refrigeration). On behalf of the Organising Committee I would like to thank these organisations for their commitment and continuing support in promoting this event.

After a rigorous reviewing process, we have accepted 95 papers for presentation at the technical sessions of the conference, the highest number in the conference history. In addition, in this book, you will find abstracts of the 3 keynote presentations, 7 Industry presentations and 13 presentations for the 3rd Short course/Forum on CFD in positive displacement machines. I would like to extend my special thanks to our 138 reviewers listed on the pages below for their hard work and for vital input in the difficult process of selecting interesting and high standard papers for the conference.

The technical papers will be presented in three parallel sessions over the first two days of the conference. These are published in the open access conference proceedings by the IOP (Institute of Physics) publications. The authors of the best papers from the conference will be invited to resubmit them in enhanced form for publication in the highly reputable Journal of Process Mechanical Engineering.

Following a very positive reaction from the attendees to our last Conference, the Industry Day is now established as the 3rd day of the conference. Industry will have an opportunity to consider the business and market influences on compressor design and manufacture, including the impact of new technologies and changes in economic, environmental and regulatory conditions. We have selected 7 exciting presentations for that event, which we hope will promote fruitful discussion.

Let me also draw your attention to the 3rd Short course/forum on Computational Fluid Dynamics in rotating positive displacement machines. This event follows two very successful short courses in 2013 and 2015. Our focus this year is on speed and efficiency in calculating multiphase flows.

I would like to extend my special thanks to our main sponsors, Holroyd PTG, Howden and Kapp Niels for their continuing support for the conference and to welcome our new sponsors Hoerbiger and Samputensili. As a result of their generous contributions we have managed to keep the conference fees low and thereby to attract a wider range of attendees.

On this occasion, I must thank all those who have helped to make this event happen. Special thanks go to Lucy Bennett and Louise Gordon of the City events team, Dr Matthew Read who brilliantly chaired the Reviewing Committee and Dr Sham Rane

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who organised the Short Course. I would also like to thank all members of the organising committee and the international liaison committee.

Please do not forget to complete your assessment of the conference before leaving, and indicate how you think it can be improved next time. All the members of the Conference Committee hope that you find the event to be both worthwhile and enjoyable and we look forward to welcoming you to City, University of London.

Professor Ahmed Kovacevic

Conference Chairman

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