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Melbourne, Australia

**The Proceedings of the 19th
Australasian Fluid Mechanics
Conference**

Editors:
Harun Chowdhury & Firoz Alam

The 19th Australasian Fluid Mechanics Conference

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Preface

The Nineteenth Australasian Fluid Mechanics Conference has attracted researchers from around the world who are involved in all aspects of fundamental and applied fluid mechanics and thermodynamics research, development and innovation. This biannual international event organized by RMIT University in association with the Australasian Fluid Mechanics Society (AFMS) has offered participants a unique platform to present and discuss the latest trends and findings and to learn about the state-of-the-art in their particular field(s) of interest. A broad range of topics and application areas have truly reflected the interdisciplinary nature of this prestigious conference. With over 370 participants, the nineteenth Australasian Fluid Mechanics has certainly become one of the largest scientific conferences in Australia since its humble beginning in 1962.

The proceedings of the 19th Australasian Fluid Mechanics Conference brings together accepted peer reviewed research contributions from 30 countries, including Australia, USA, Canada, New Zealand, Singapore, India, Bangladesh, UK, Germany, Russia, China, Hong Kong, South Korea, and Japan. The proceedings include over 350 refereed research papers that have been presented at the 19th Australasian Fluid Mechanics Conference in Melbourne, Australia on 8-11 December, 2014. The published papers were selected from over 540 submitted abstracts and papers on the basis of their rigor, significance and originality.

We gratefully acknowledge the authors and the referees who have made this publication possible with their research and contributions. We would also like to thank the conference secretariat at RMIT for their hard work and dedication. Organizing and hosting the 19th Australasian Fluid Mechanics Conference have required a huge amount of time, energy and commitment. It is only made possible through contributions by the organizing committee, authors, invited speakers, delegates, student volunteers, sponsors and exhibitors. We profoundly acknowledge the generous financial support provided by US Office of Naval Research Global and the City of Melbourne. Finally, we hope that the proceedings will be of interest to researchers, practitioners and enthusiasts whatever their scientific background or persuasion.

Associate Professor Firoz Alam & Dr Harun Chowdhury
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