

Preface

The 41st World Congress of IAHR (International Association for Hydro-Environment Engineering and Research) was held in Singapore from 22–27 June 2025, together with the Singapore International Water Week (SIWW) Spotlight. Singapore is a sunny, tropical coastal nation in Southeast Asia, known for its efficient governance, vibrant economy, and multicultural society. Despite limited land and water resources, Singapore has emerged as a global leader in urban water management by prioritizing education, fostering innovation, and committing to sustainable practices.

The theme of the Congress was “**Innovative Water Engineering for Sustainable Development**”. The technical programme featured a comprehensive and diverse range of topics that were categorised into the following key themes:

Sub-Theme A: Water Engineering and Technological Innovations

- (1) A.1 Climate Change Mitigation
- (2) A.2 Improving Resilience against Water Hazards and Natural Disasters
- (3) A.3 Water Engineering and Society
- (4) A.4 Water Engineering for Energy Transition and Food Security
- (5) A.5 Digital Transformation
- (6) A.6 Experimental and Field Methods

Sub-Theme B: Water Engineering and Socio-Economic Considerations

- (1) B.1 Climate Change Adaptation
- (2) B.2 Water and Nature
- (3) B.3 Hydro-Environment Engineering Culture

The Congress received close to 1300 abstract submissions, resulting in 625 oral presentations and 173 poster presentations. Additionally, there were 4 High-Level Panels, 49 special sessions, 3 masterclasses, 4 workshops, and many exhibition booths. The total number of international delegates to the Congress exceeded 1350.

We would like to convey our heartfelt gratitude to everybody who contributed to the success of this event. We sincerely thank the distinguished speakers and delegates, members of the International Steering Group and National Organising Committee, and members of the IAHR Council and IAHR Technical Committees for valuable contributions. We also thank the members of the International Scientific Committee and Reviewers for their diligent effort in ensuring the quality of the Congress. Finally, our appreciation goes to the Session Chairs, the Conveners of Special Sessions, Master-classes, and Workshops, and dedicated colleagues and volunteers from all participating institutions. Your invaluable support and commitment had made this congress a memorable week for all who participated.

Prof Adrian Wing-Keung Law

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