



**36th IAHR  
WORLD CONGRESS**  
28 June – 3 July, 2015  
Delft – The Hague, the Netherlands

# PROCEEDINGS OF THE 36<sup>TH</sup> IAHR WORLD CONGRESS

DELTAS OF THE FUTURE  
and what happens upstream

**Editor: Arthur Mynett**

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**Proceedings of the 36th IAHR World Congress**  
**Deltas of the Future and what Happens Upstream**  
**The Hague, 28 June- 3 July, 2015**

**Editor: Arthur Mynett**

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IAHR, founded in 1935, is a worldwide independent member-based organisation of engineers and water specialists working in fields related to the hydro-environmental sciences and their practical application. Activities range from river and maritime hydraulics to water resources development and eco-hydraulics, through to ice engineering, hydroinformatics, and hydraulic machinery.

IAHR consists of two offices: Madrid Office, Spain and Beijing Office, China

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Prince Sultan Bin Abdulaziz  
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The 36th World Congress of IAHR (International Association for Hydro-Environment Engineering and Research) was held in Delft-The Hague, Netherlands, from June 28th to July 3rd, 2015.

The scope of the congress was on cross-cutting themes related to Deltas of the Future, looking at what happens upstream, linking hydro-environment research to engineering practice, and reaching out to the developing world. The technical programme comprised seven main themes:

- Managing Deltas,
- Hydro-environment
- Sediment management and Morphodynamics
- Water Engineering
- Flood Risk Management and Adaptation
- Water Resources and Hydroinformatics
- Extreme Events, Natural Variability and Climate Change

The Congress attracted 1370 participants from 72 countries with a student participation of 25%, which can be considered a great achievement. Having received over 2000 abstracts, a total of 935 oral presentations and 319 poster presentations were accepted in the final programme.

All papers went through a rigorous double peer-review process handled by the members of the Local Organizing Committee together with the chairs / co-chairs and members of the Technical Committees of IAHR.

In addition to the plenary keynote presentations during the opening and closing ceremonies, the programme contained 14 keynote lectures as well as the Ippen Award lecture. On the Wednesday afternoon July 1st several technical excursions were organised. The Farewell Banquet was held on Friday evening July 3rd at the nearby Madurodam exhibition site.

Special activities were organized by and for the IAHR Delft Young Professionals Network (YPN-Delft) including a boat trip along the Rotterdam Harbour, sponsored by the Dutch Water Sector. The trip provided ample opportunity for networking as well as for enjoying the view and sunset over the harbour on a long warm summer night ...

The 36th IAHR World Congress was first to develop a special app for real-time update and communication of the congress programme. It was also first to publish the proceedings as a fully electronic version accessible via the IAHR website in an environmental friendly way.

The present e-proceedings contain only full papers. All congress papers, including abstracts and extended abstracts, can be accessed via the IAHR website [www.iahr.org](http://www.iahr.org).

On behalf of the Local Organizing Committee I would like to thank all participants, all members involved in the paper review process, all YPN volunteers, our PCO Congrex/CIMglobal, our Communications Bureau Ster in Uitvoering, and of course our sponsors presented below.

Thank you all for making the 36th IAHR World Congress a big success!

Prof. Arthur Mynett, Chair LOC  
36th IAHR World Congress  
Delft-The Hague, Netherlands