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Article, Published Version

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River Flow 2010

HydroLink

Verfügbar unter/Available at: <https://hdl.handle.net/20.500.11970/109111>

Vorgeschlagene Zitierweise/Suggested citation:

Aberle, Jochen (2011): River Flow 2010. In: HydroLink 2011/2. Madrid: International Association for Hydro-Environment Engineering and Research (IAHR). S. 27-27. https://iahr.oss-accelerate.aliyuncs.com/library/HydroLink/HydroLink2011_02_Shaft_Power_Plant_Design.pdf.

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River Flow 2010

September 8-10, Braunschweig, Germany

River Flow 2010 was held from 8 to 10 September 2010 at the Technische Universität Braunschweig, Germany. The venue, attended by 285 delegates from 36 countries, was the 5th in a highly successful series of River Flow conferences of which the first was held in Louvain-la Neuve, Belgium (2002) followed by Naples, Italy (2004), Lisbon, Portugal (2006), and Cesme, Turkey (2008).

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The River Flow conferences, organised under the auspices of the IAHR Fluvial Hydraulics Committee, are the ideal platform for exchange between scientists and engineers with respect to fluvial hydraulics and river-related disciplines. This becomes apparent from the main conference topics which have been related to river hydrodynamics, river morphodynamics and sediment transport, and river engineering. These topics were addressed in five exceptional keynote lectures: Christoph Heinzelmann (Federal Waterways Engineering and Research Institute, Germany) introduced innovative methods in waterways engineering; Stephen Coleman (University of Auckland, New Zealand) addressed important issues related to fluvial sediment transport and morphology; Wolfgang Rodi (Karlsruhe Institute of Technology, Germany) reported on latest developments on large eddy simulation of river flows; Heidi Nepf

(Massachusetts Institute of Technology, USA) provided an overview on flow and sediment transport in and around vegetation patches; and Donald Knight (University of Birmingham, UK) discussed solutions for solving various open channel problems.

The Local Organizing Committee of River Flow 2010 received 487 abstracts, of which 284 were considered to be aligned with the conference topics. Subsequently, 235 papers were submitted by engineers and researchers of 32 countries. The International Scientific Committee selected 223 to be included in the proceeding books. Of these, 74 % were considered for oral presentation and 26 % were selected for the poster sessions. A distinctive feature of River Flow conferences has been the Master Classes taking place the day preceding the formal opening of the Conference. In Braunschweig, the response to this initiative exceeded the best initial expectations: 7 master Classes were conducted and organised by 14 masters, enrolling 58 students from 14 countries. This is an indication of the vitality of fluvial hydraulics and a contribution for the continuity of the IAHR.

The success of the conference was ensured by the lively and highly motivated audience but also by the generous support of the sponsors BAW, DFG, EWE, IAHR, LWI, and TU Braunschweig.

The River Flow Proceedings (editors A. Dittich, Ka. Koll, J. Aberle, and P. Geisenhainer) are presently available online (https://vzb.baw.de/publikationen.php?file=int_konf/0/RiverFlow2010.zip) and contain all scientific papers that were presented during the conference, either as oral or poster presentation.

They are also published in 2 printed volumes and on CD-ROM by Bundesanstalt für Wasserbau (<http://www.baw.de>; email: info@baw.de) ISBN 978-3-939230-00-7

