

Environmental Earth Sciences

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Editors

Sustainable Development of Water Resources and Hydraulic Engineering in China

Proceedings for the 2016 International
Conference on Water Resource
and Hydraulic Engineering

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Preface

The “2016 International Conference on Water Resource and Hydraulic Engineering” was held at the Hebei University of Engineering, Handan, China, on October 9–12, 2016. More than 160 professionals attended. This conference was sponsored by the Hebei University of Engineering.

The central theme of the conference focused on sustainable development of water resources and the environment. Papers for conference presentation were selected from a wide variety of research areas, including watershed hydrology, river hydraulics, groundwater hydrology, water resource management and sustainability development, water supply planning under climate change, water quality analysis and water pollution, Sponge City Development and urban watershed management, environment and sustainability, global connection of air and water, irrigation and drainage issues for agricultural engineering. Out of 72 submitted papers, 34 were selected for this proceedings.

Global climate change and variability have had great impacts on the hydrologic cycle and subsequently on our living environment. Human activities have placed significant roles in an altered hydrologic environment. China has already experienced some environmental impacts from its rapid economic development in recent years. Issues such as air quality, surface water and groundwater environment, flooding especially in big cities, sustainable water resources, etc., have become major concerns by the Chinese government and general public. The central government of China is promoting the Sponge City or Low Impact Development concept to address these issues to sustain the continuing economic growth in China and at the same time to create a healthier and eco-friendly environment. Papers selected from this conference for the proceedings covered research related to these on advanced technology for air quality and water quality monitoring, and research on sustainable water resource development under global climate change and variability.

Papers in this proceedings shall be of interest to a worldwide audience in addressing emerging problems a developing country might face and by research and practice to successfully deal with these issues for a greener and eco-friendly living environment.

Handan, China
Champaign, USA
Handan, China
Tuscaloosa, USA

Wei Dong
Yanqing Lian
Yong Zhang
Jim LaMoreaux

*The original version of the book was revised:
A new chapter has been included. The
erratum to the book is available at
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