

Preface

It is highly delighted to introduce the 2021 5th International Conference on Water Conservancy, Hydropower and Building Engineering (WCHBE 2021), which held on May 28-30, 2021 in Qingdao, China. The conference is an international conference for the presentation of technological advances and research results in the fields of water conservancy, hydropower and building engineering. The conference will bring together leading researchers, engineers and scientists in the domain of interest from around the world. We warmly welcome previous and prospected authors submit your new research papers to WCHBE 2021, and share the valuable experiences with the scientist and scholars around the world.

About 90 participants from academic, high-education institutes and other organizations took part in the conference. The conference model was divided into two sessions, including oral presentations and keynote speeches. In the first part, some scholars, whose submissions were selected as the excellent papers, were given 15 minutes to perform their oral presentations one by one. Then in the second part, keynote speakers were each allocated 30-45 minutes to hold their speeches. We were very honored to have Prof. Hengjia Zhang, from Gansu Agricultural University, China and Prof. Hamidi Abdul Aziz, from Universiti Sains Malaysia, Malaysia as our committee chairman.

In the keynote presentation part, we invited A. Prof. Ahmad Safuan Bin A. Rashid, from School of Civil Engineering, Faculty of Engineering, Universiti Teknologi Malaysia as our keynote speaker. He had outstanding research in Soil Mechanics, Geotechnical Engineering, Ground Improvement and other related area. He delivered a speech: *A study on Rock Shaft Resistance of Bored Piles Socketed into Decomposed Malaysia Granite*. This paper attempted to review the applicability of the formulae published in the literature in the granite formation of Malaysia. A program of fields testing tests was conducted to measure the axial response of bored piles. The results demonstrated that method proposed by Horvath & Kenny gives the best prediction of rock shaft resistance for decomposed granite.

The proceedings present a selection of high-quality papers submitted to the conference by researchers from universities, research institutes, and industry. All papers were subjected to peer-review by conference committee members and international reviewers. The papers were selected based on their quality and their relevance to the conference. The proceedings present recent advances in the fields of Civil, Architectural Engineering; Water conservancy and hydropower and others related research.

I would like to express special gratitude to members of the conference committee and organizers of the conference. I would also like to thank the reviewers for their valuable time and advice which helped in improving the quality of the papers selected for presentation at the conference and for publication in the proceedings. Finally, I want to thank the authors, the members of the organizing committee, the reviewers, the chairpersons, sponsors, and all other conference participants for their support of WCHBE 2021.

The Committee of WCHBE 2021

Committee member

Conference Chair

Prof. Hengjia Zhang, Gansu Agricultural University, China
Prof. Hamidi Abdul Aziz, Universiti Sains Malaysia, Malaysia

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