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Proceedings of the 8th International Congress on Environmental Geotechnics Volume 1

Towards a Sustainable Geoenvironment

Springer

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Preface

Issues associated with environmental geotechnics continue to be a major preoccupation for governments, public and private organizations and the general community around the world. With the support from the International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE) and the Technical Committee of Environmental Geotechnics (TC215), the Environmental Geotechnics Congress Series has been held regularly since 1994 (Canada 1994; Japan 1996; Portugal 1998; Brazil 2002; UK 2006; India 2010; Australia 2014) and established itself as a highly influential forum for exchange and discussion on the subject. Following the success of 7ICEG in Melbourne, 2014, the 8th International Congress on Environmental Geotechnics (8ICEG) held on 28 October–1 November 2018 in Hangzhou, China, continues tackling challenging issues in the broad range of environmental geotechnics.

The congress theme is "Towards a Sustainable Geoenvironment". "Sustainable Development is to meet the needs of the present without compromising the ability of future generations to meet their own needs". Geoenvironment is a specific compartment of the environment and comprises portions of geosphere, hydrosphere and biosphere. Under this theme, the congress will cover a broad range of topics and will provide an excellent opportunity for academics, engineers, scientists, government officials, regulators and planners to present, discuss and exchange the latest advancements and developments in the research and application of environmental geotechnics.

Out of 340 abstracts received, 8ICEG chose 255 full manuscripts and 6 extended abstracts submitted from 28 countries and regions in 5 continents for publication in this conference proceedings, which provides a platform for scholars and practitioners to share and exchange their experiences with their peers, especially with those from developing countries with impending geoenvironmental issues. There are several features of the proceedings:

- Eleven comprehensive manuscripts, together with 6 extended abstracts, were contributed from the Plenary Lecturers from 11 countries, which includes 8 academicians, 4 editors of major journals and 6 chairpersons of international

renowned organizations. Their contributions provided in-depth insights into the chosen topics.

- Emerging topics, such as sustainability, bio-geoengineering and geoenvironmental aspects in energy geotechnics have strong appearance, which suggests developments towards a better living geoenvironment is the focus for future developments.
- Manuscripts from "Belt and Road Countries" emerged and showed strong presence in 8ICEG, including 24 manuscripts from 10 countries. Environmental problems in those countries take high priority for the governments.

Financial supports from the National Natural Science Foundation of China (41842018) and the Chinese Program of Introducing Talents of Discipline to University (the 111 Project, B18047) are acknowledged. The time and efforts of the associate editors and the reviewers for the proceedings are greatly appreciated.

We hope you enjoy 8ICEG in the beautiful city of Hangzhou!

Sincerely yours,

Liangtong Zhan
Yunmin Chen
Abdelmalek Bouazza
Editors of the Proceedings of 8ICEG

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Commission on Waste Disposal of the International Association of Engineering Geology and the Environment (IAEG)

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