Selected Papers from the Proceedings of the Fourth Geo-China International Conference

Geotechnical Special Publication No. 264



Innovative Technologies for Severe Weather and Climate Change

Edited by

Sherif El-Badawy, Ph.D.

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Mohamed Arab, Ph.D.

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GEOTECHNICAL SPECIAL PUBLICATION NO. 264

GEO-CHINA 2016

INNOVATIVE TECHNOLOGIES FOR SEVERE WEATHER AND CLIMATE CHANGE

SELECTED PAPERS FROM THE PROCEEDINGS OF THE FOURTH GEO-CHINA INTERNATIONAL CONFERENCE

July 25–27, 2016
Shandong, China

SPONSORED BY

Shandong University

Shandong Department of Transportation

University of Oklahoma

Chinese National Science Foundation

Geo-Institute of the American Society of Civil Engineers

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Published by the American Society of Civil Engineers

Published by American Society of Civil Engineers
1801 Alexander Bell Drive
Reston, Virginia, 20191-4382
www.asce.org/publications | ascelibrary.org

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Errata: Errata, if any, can be found at http://dx.doi.org/10.1061/9780784480076

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ISBN 978-0-7844-8007-6 (PDF)
Manufactured in the United States of America.

Preface

This Geotechnical Special Publication (GSP) contains 20 papers that were accepted and presented at the GeoChina 2016 International Conference on Sustainable Civil Infrastructures: Innovative Technologies for Severe Weathers and Climate Changes. The conference was held in in Shandong, China in July 25-27, 2016. The conference provided a showcase for recent developments and advancements in design, construction, and safety inspections of transportation infrastructures and offered a forum to discuss and debate future directions for the 21st century.

The presented research papers cover many interesting and contemporary topics including foundation failure and repair, rehabilitation strategy selection and preventative maintenance treatments, asphalt binder and mixture characterization, design methods and materials, innovative repair methods and materials, durable and sustainable designs, innovative materials, advances in foundation design/construction, accelerated and/or performance based design/construction, and aesthetics and environment. The overall theme of the GSP is the development and application of innovative technologies for severe weathers and climate changes and the presented papers address different research findings of this theme. It provides an effective means of disseminating recent developments, advancements, innovative technologies, and research results concerning sustainable civil infrastructures among scientists, researchers and engineering practitioners.

We would like to thank all the participants for their contributions to the success of the conference program and their contributions to this Geotechnical Special Publication (GPS).

Acknowledgments

The following individuals have assisted in the preparation of this GSP and reviewing the papers:

Ragaa Abd El-Hakim, Ph.D, Tanta University, Egypt
Alaa R. Gabr, Ph.D, Mansoura University, Egypt
Abdelhalim M. Azam, Ph.D, Mansoura University, Egypt
Tamer Breeka, Ph.D, American University in Cairo, Egypt
Jarvis Thor, California Pavement Preservation Center
Ahmed Elnimr, Ph.D, Mansoura University, Mansoura, Egypt
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