

IFCEE 2015

Geotechnical
Special
Publication
No. 256



Edited by

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GEOTECHNICAL SPECIAL PUBLICATION NO. 256

IFCEE 2015

PROCEEDINGS OF THE INTERNATIONAL FOUNDATIONS
CONGRESS AND EQUIPMENT EXPO 2015

March 17-21, 2015
San Antonio, Texas

SPONSORED BY
International Association of Foundation Drilling
Deep Foundations Institute
Pile Driving Contractors Association
The Geo-Institute of the American Society of Civil Engineers

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Preface

This Geotechnical Special Publication (GSP) contains selected papers from the International Foundations Congress and Equipment Expo (IFCEE15) held in San Antonio, Texas on March 17–21, 2015. This Congress combined the 2015 annual meetings of ASCE’s Geo-Institute, the International Association of Foundation Drilling (ADSC), the Pile Driving Contractors Association (PDCA) and the Deep Foundations Institute (DFI). This mega event was the first time since 2009 that leading geotechnical organizations joined together to have one annual congress. IFCEE15 provided an international forum to discuss technological advances, case histories, and present challenges related to geotechnical and foundation engineering. The congress was heavily attended by a wide range of geo-professionals including engineers, contractors, academicians, equipment manufacturers, geo-technologists, researches, and suppliers of tools and services.

An international call for papers and a rigorous peer review process yielded 265 accepted technical papers that were presented in 38 sessions, in addition to invited keynote presentations.

The editors would like to express their appreciation for having been provided the opportunity to be a part of this Congress’ organization, and hope that these proceedings will be of use to the geotechnical engineering community, for many decades to come.

The Editors,

Magued Iskander, PhD, PE, F.ASCE, New York University
Muhannad T. Suleiman, PhD, Lehigh University
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Debra F. Laefer, PhD, University College, Dublin

Acknowledgments

The success of this Congress is credited to the authors of the technical papers for their valuable contributions to the geotechnical literature. The commendable quality of the Congress' technical content and these proceedings are also the result of the efforts of the hundreds of reviewers who conducted over 600 reviews. We thank the reviewers for generously contributing their valuable time and expertise, in many cases, under time pressure and demanding deadlines.

Acknowledgment is also due to the many members of the G-I, DFI, ADSC, and PDCA who provided valuable and much needed support to assure the success of this Congress.

The following individuals served as the technical program committee. They deserve special acknowledgment and recognition for their extraordinary efforts in making this Congress a reality and a resounding success: William M. Camp (Co-Chair), J. Brian Anderson (Co-Chair), Peggy Hagerty Duffy, Jesús E. Gómez, Mohamad Hussein, Michael D. Justason, and Mary Ellen (Bruce) Large.

To all of you, and the many others who are too numerous to name, THANK YOU.

Finally, we wish to gratefully acknowledge the support we received from our employers New York University, Lehigh University, Auburn University, and University College Dublin.

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Following standards of practice of the Geo-Institute of The American Society of Civil Engineers, each paper published in this Geotechnical Special Publication (GSP) was peer reviewed by at least two anonymous, qualified, technical reviewers (and in some cases three or four reviewers) and selected for publication by the proceedings editors. An advanced document management service was utilized in order to assure anonymity and maintain uniformity of standards. As such, the papers contained in these proceedings are eligible for discussion in the ASCE Journal of Geotechnical and Geoenvironmental Engineering and for ASCE awards.

Review Board

The following individuals served as Track and Session Chairs. They coordinated and managed the peer review process of the papers included for publication in this Geotechnical Special Publication. The quality of these world-class proceedings is a testament to their professionalism and dedication. Listed in alphabetical order by last name, they are:

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The editors are grateful to the following 301 individuals for working tirelessly under a tight schedule in order to peer review the papers included for publication in this Geotechnical Special Publication. As a group the following individuals performed over 600 peer reviews, and their service to the geotechnical community is gratefully appreciated.

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