Geotechnical Frontiers 2017: Seismic Performance and Liquefaction



Selected Papers from the Proceedings of Geotechnical Frontiers 2017

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Edited by
Thomas L. Brandon, Ph.D., P.E.
Richard J. Valentine, P.E.

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SEISMIC PERFORMANCE AND LIQUEFACTION

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EDITED BY
Thomas L. Brandon, Ph.D., P.E.
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Preface

Geotechnical Frontiers 2017 was held in Orlando, FL, on March 12-15. It is the third conference co-sponsored by the Industrial Fabrics Association International (IFAI) and the American Society of Civil Engineers' Geo-Institute (G-I). Other supporting organizations are acknowledged below.

The conference includes topics which illustrate that our understanding of traditional subjects, such as the physical properties of soils, the stability of slopes, the details of mechanically-stabilized earth, the design of roadways and the efficacies of geosynthetics remains far from complete. It also includes topics that reflect the dynamic and evolving nature of our industry, such as thermal properties of soils, energy geostructures, coastal engineering and measures to process coal combustion residuals.

The conference was organized with eight concurrent technical sessions over a period of three days. Most sessions are 90-minutes-long, and ideally, contain five to six presentations. These constraints limited the total number of slots that are available for paper presentations, and consequently, the total number of papers that can included in the proceedings. This is because, according to the conference rules, a paper must be presented in order to be published in the proceedings.

We received 893 abstracts for the conference. Each abstract was reviewed by the two technical session co-chairs and by at least one of the conference technical co-chairs. Of the 689 abstracts that were accepted, 583 resulted in draft manuscript submittals. Each manuscript received at least two reviews. At the end of this process, 361 manuscripts were recommended for publication in the six volumes of these proceedings. Unfortunately, the limited number of presentation slots made it necessary to decline many fine papers. We encourage the authors to submit at other venues.

Geotechnical Frontiers is also the venue for special presentations of invited and award lectures. Prof. Kerry Rowe presented the Terzaghi Lecture, Prof. Vaughan Griffiths presented the Seed Lecture, and Prof. Ning Lu presented the Peck Lecture. The inaugural Robert. M. Koerner Award and Lecture debuted at this conference and George Koerner was the speaker. There was also a special honorary symposium in recognition of the distinguished career and countless contributions of Professor Mike Duncan.

Thomas L. Brandon and Richard J. Valentine, Editors
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