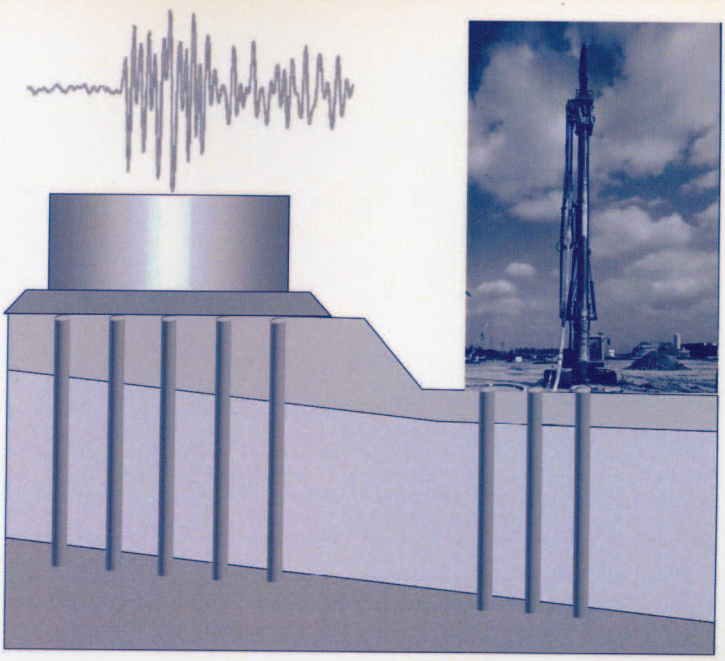


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Ground Modification and Seismic Mitigation

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EDITED BY Ali Porbaha
Shui-Long Shen
Joseph Wartman
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Preface

This Geotechnical Special Publication contains fifty eight peer reviewed technical papers that represent the latest advances in ground modification and seismic mitigation. Presented during the GeoShanghai International Conference held in Shanghai, China, June 6–8, 2006, the papers discuss a variety of topics related to deep mixing, prefabricated vertical drains, ground improvement by granular columns, vacuum consolidation, soil treatment, ground reinforcement by nails and anchors, combined soil modifications and geosynthetics. This proceedings provides coverage of soil improvement for foundations, suspension bridges, railway tracks, embankments on columns, analysis of composite ground, liquefaction mitigation by electro-Osmosis, stone columns, jet grouting, and wick drains; seismic performance of underground structures, bridge approaches and immerse tunnels. This collection of papers covers recent case histories, theoretical advances, laboratory and field testing, and design methods beneficial to practitioners, researchers, and other professionals.

Each paper published in this ASCE Geotechnical Special Publication (GSP) was evaluated by two or more reviewers. All published papers are eligible for discussion in the Journal of Geotechnical and Geoenvironmental Engineering, and are also eligible for ASCE awards. The editors would like to thank the authors for their contributions and to the following sixty six individuals who reviewed one or more papers for this geotechnical special publication:

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