GEOTECHNICAL PRACTICE PUBLICATION NO. 12

Rocky Mountain Geo-Conference 2018



Proceedings of the Rocky Mountain Geo-Conference 2018

Golden, Colorado
November 2, 2018

Edited by
Jere A. Strickland, P.E.
Richard L. Wiltshire, P.E.
Joels C. Malama, P.E.

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SPONSORED BY
The Geo-Institute of the American Society of Civil Engineers

Geo-Institute Chapter of the Colorado Section of the American Society of Civil Engineers

Mile High Chapter of the Association of Environmental and Engineering Geologists

Colorado Association of Geotechnical Engineers

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Preface

Since 1984, the ASCE Geo-Institute Chapter of the Colorado Section, in collaboration with the Mile High Chapter of the Association of Environmental and Engineering Geologists and the Colorado Association of Geotechnical Engineers, has organized a biennial series of conferences on a wide variety of geotechnical and geologic themes that are attended by civil/geotechnical engineers, geologists, and other geo-professionals. The geotechnical conferences are held at area universities or hotels and offer the opportunity for sharing ideas and experiences among Colorado's diverse geo-disciplines. Since 2004, ASCE's Geo-Institute has published the papers of these conferences in a total of eight Geotechnical Practice Publications, allowing the experiences to be shared with a worldwide audience.

The Steering Committee convened in August 2017 and held monthly meetings to plan for the 2018 Biennial Rocky Mountain Geo-Conference. The Steering Committee members included Christoph Goss (Conference Chair), Lindsay Tita (Vice Conference Chair), James Arthurs, Eric Bergstrom, Mark Brooks, Robin Dornfest, Darin Duran, Evan Lindenbach, Joels Malama, Cameron Mang, Ryan Marsters, Minal Parekh, Nicolas Potter, Will Rausch, Robert Redd, Becky Roland, Jere Strickland, Tom Terry, Nate Thompson, Mark Vessely, Chris Wienecke, and Richard Wiltshire.

Jere Strickland, Richard Wiltshire, and Joels Malama

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Acknowledgments

The Steering Committee wishes to take this opportunity to thank all of the authors and reviewers of our papers, which are herein presented as Geotechnical Practice Publication No. 12. The authors have spent many hours in preparing and finalizing their papers, which will be presented at the 2018 biennial Rocky Mountain Geo-Conference on November 2, 2018. These papers have been reviewed by a volunteer group of Denver area geo-professionals who put in their valuable time and helped make these papers even better. The Geo-Institute's Committee on Technical Publications completed its review of our papers in a very timely manner and their adherence to our aggressive publication schedule is greatly appreciated. We would also like to acknowledge the assistance of Donna Dickert, ASCE's Acquisitions Editor and Diane Swecker, Senior Technical Manager, Geo-Institute of ASCE, for putting this publication together. Last but not least, we would like to thank and acknowledge the sponsors and exhibitors of this year's conference. Without their support, we would not be able to offer the incredible experience that the Rocky Mountain Geo-Conference has become known for.

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