

Geotechnical Modeling in PLAXIS

Luis G. Arboleda-Monsalve
University of Central Florida (UCF)

and

Dr. Ronald B.J. Brinkgreve

Friday, November 3, 2017
University Hills Community Center
1083 California Ave
Irvine, California 92617



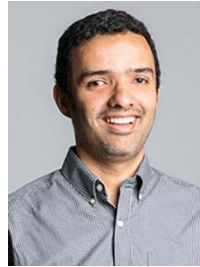
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Luis G. Arboleda-Monsalve, Ph.D., F.ASCE



Luis G. Arboleda-Monsalve is an Assistant Professor at the Department of Civil, Environmental and Construction Engineering at University of Central Florida (UCF), Orlando. Dr. Arboleda joined UCF after being an assistant professor for 3 years at California State University, Long Beach. Dr. Arboleda obtained his Ph.D in Geotechnical Engineering from Northwestern University in 2014, Master of

Science in Structural Engineering from Purdue University in 2006, and B.S in Civil Engineering from National University of Colombia in 2004. He worked as a bridge engineer from 2007 to 2010 at Janssen and Spaans Engineering Inc. in Indianapolis, IN, and specialized in the design, construction engineering, inspection and rehabilitation of numerous infrastructure projects including long-span record breaking bridges in the United States. His expertise is in full-scale field performance and instrumentation of geostructures including soil-structure interaction and numerical simulations of deep excavations using constitutive model parameters obtained from advanced laboratory testing of soils. Other research interests are in: geotechnical earthquake engineering and soil liquefaction modeling, laboratory testing of soils including sedimentary soils, residual soils, fly ash, laboratory testing of biocemented soils with Microbial Induced Calcite Precipitation, constitutive modeling of soils and rocks, static and dynamic stability of structures, and analysis of the behavior of long-span bridges."

Dr. Ronald B.J. Brinkgreve, F.ASCE



Dr. Ronald B.J. Brinkgreve is Manager of the Competence Centre Geo-Engineering (research manager) at Plaxis BV (MT member) and part-time Associate Professor at Delft University of Technology (TUDelft). In 1994, Ronald obtained his PhD degree from TUDelft based on the dissertation "Geomaterial Models and Numerical Analysis of Softening" after which he started working at Plaxis as senior researcher and coordinator of research and development projects. In his position of research manager, Ronald is responsible the scientific and geotechnical backgrounds of the PLAXIS software. Together with his team of professional researchers, Ronald is responsible for the research and development of the finite element-based calculation kernels, numerical methods and soil constitutive models.

In addition, Ronald teaches in international Plaxis courses on Computational Geotechnics and maintains a large network of

contacts at universities and research centres. From 2008 till 2014, Ronald has been member of the NAFEMS geotechnical committee and is author of the book "Validating Numerical Modelling in Geotechnical Engineering". Since 2015 Ronald is (guest) member of the German DGGT working group 1.6 on Numerical Methods in Geotechnics.

COURSE SCHEDULE

- 8:00 – 8:30 Registration
- 8:30 – 9:15 Overview of Constitutive Models in Plaxis
- 9:15 – 10:15 Overview of Dynamic Analysis features in PLAXIS
- 10:15 – 10:30 Break/Networking
- 10:30 – 11:30 Introduction to the PM4SAND model in PLAXIS
- 11:30 – 12:30 Lunch/Networking
- 12:30 – 1:15 Modeling of Case Histories
- 1:15 – 3:15 Hands-on simulation of soil lab tests using the PM4SAND model
- 3:15 – 3:30 Summary and Open Discussion

REGISTRATION

Course fee is \$150.00
Students with current ID: \$40.00
Checks payable to the "Los Angeles Geo-Institute Chapter" and mailed to:

David E. Albus
Albus-Keefe & Associates, Inc.
1011 N. Armando Street
Anaheim, CA 92806

Or Online at:

<http://lageoinstitute.com/register/>

Questions? Email Derek Deutscher at
ddeutscher@condon-johnson.com