



CASSANDRA J. RUTHERFORD

Geotechnical Lab Manager
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EDUCATION

Texas A&M University, College Station, TX, Doctor of Philosophy, Civil Engineering, Geotechnical Engineering, Expected Graduation – August 2011

Texas A&M University, College Station, TX, Master of Science Civil Engineering, Geotechnical Engineering, 2004

Texas A&M University, College Station, TX, Bachelor of Science, Civil Engineering, Geotechnical and Structural Engineering, 2002

PROFESSIONAL EXPERIENCE

TDI-Brooks International, Inc., College Station, TX, Geotechnical Lab Manager, 2006-Present

- Conduct soil experimentation such as Atterberg limits, compressive strength and boring descriptions
- Organize and prepared data for geotechnical reports
- Oversee the analysis of geotechnical samples
- Develop analytical methods to expand geotechnical laboratory capabilities

HBC Engineering, Austin, TX, Geotechnical Intern, May 2001 – August 2001

Department of Civil Engineering – Texas A&M University, College Station, TX, Research Assistant, 2001 – Present

United States Department of Agriculture, College Station, TX, Biological Science Aid, April 2000 – March 2001

SELECTED PROFESSIONAL ACTIVITIES/AWARDS

President of Texas A&M University Graduate Student Council, 2005

Montgomery Endowed Fellowship Prize, 2005

Buck Weirus Spirit Award, 2005

Texas A&M University Graduate Teaching Academy Fellow, 2005

Guseman Award, 2004



Dwight Look College of Engineering Distinguished Student Award
Secretary of American Water Resources Association, 2004

SELECTED PUBLICATIONS

Rutherford, C. J. and Biscontin, G. "Multi-directional Simple Shear Response of Gulf of Mexico Clays." (*In preparation*)

Rutherford, C. J. and Biscontin, G. "Multi-directional Direct Simple Shear Device for Dynamic Soil Testing." (*In preparation*)

Rutherford C.J., Biscontin G., Koutsoftas D. and Briaud J.L. (2007). *Design Process of Deep Soil Mixed Walls for Excavation Support*. International Journal of Geoenvironmental Case histories, Vol.1, Issue 2, p.56-72.

Rutherford, C. J., Biscontin, G. and Briaud, J.-L. (2005). "Design Manual for Excavation Support Using Deep Mixing Technology," Research Digest, National Deep Mixing (NDM) Research Program, Federal Highway Administration Pool Fund Study, NDM 111, March 2005.

Rutherford, C. J., Biscontin, G., Koutsoftas, D., and Briaud, J.-L., (2005). "Numerical Modeling of Deep Soil Mixing Excavation Support," Geocongress 2006.

Rutherford, C. J., Biscontin, G. and Briaud, J.-L., (2005). "Deformation Predictions Based on Estimates of Soil Cement Modulus and Flexural Stiffness," *Proceedings, The 11th International Conference of IACMAG*, June 19-24, 2005, Turin, Italy, Vol, 3, 433-440.

Rutherford, C. J., Biscontin, G. and Briaud, J.-L., (2004). "Deep Mixing for Excavation Support: Design Issues," *Proceedings of GeoTrans 2004*, Yegian, Kavazanjian, eds., July 27-31, 2004, Los Angeles, CA, 1356-1365.

Rutherford, C. J., (2004). "Design Manual for Excavation Support Using Deep Soil Mixing," M.S. Thesis, Texas A&M University, College Station, TX.

Peschel, J. M., and Rutherford, C. J., (2001). "Procedure for Creation of a dSPACE Control Module Using Simulink and Real-Time Workshop," Internal Technical Report, Texas A&M University, College Station, TX.