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PUBLICATIONS

Current graduate students among the authors are underlined. Past graduate students among the authors are double underlined. Joint students are *italicized* and either single or double underlined. If multiple authors are listed, the primary author is designated by an asterisk*.

Full Articles in Refereed Publications

1. *Sagaseta, C., Whittle, A.J., and *Santagata, M.C. (1997), "Deformation analysis of shallow penetration in clay," *International Journal for Numerical and Analytical Methods in Geomechanics* (21) 10, 687-719. (Tier 1)
2. *Santagata, M.C. and Collepardi, M. (2000), "The effect of CMA deicers on concrete properties," *Cement and Concrete Research* 30 (9), 1389-1394. (Tier 1)
3. *Da Re, G., *Santagata, M.C., and Germaine, J.T. (2001), "LVDT based system for the measurement of the pre-failure behavior of geomaterials," *ASTM Geotechnical Testing Journal* 24 (3), 288-298. (Tier 1)
4. *Santagata, M.C. and *Germaine, J.T. (2002), "Sampling disturbance effects in normally consolidated clays," *Journal of Geotechnical and Geoenvironmental Engineering*, ASCE 128 (12), 997-1006. (Tier 1)
5. *Santagata, M.C. and Germaine, J.T. (2005) "Effect of OCR on sampling disturbance of cohesive soils and evaluation of laboratory reconsolidation procedures," *Canadian Geotechnical Journal* 42 (2), April 2005, 459-474. (Tier 1)
6. *Santagata, M.C., Germaine, J.T., and Ladd, C.C. (2005), "Factors affecting the initial stiffness of cohesive soils," *Journal of Geotechnical and Geoenvironmental Engineering*, ASCE 131 (4), 430-441. (Tier 1)
7. *Sreekrishnavilasam, A., King, S., *Santagata, M. (2006), "Characterization of fresh and landfilled cement kiln dust for reuse in construction applications," *Journal of Engineering Geology* 85 (1-2), 165-173. (Tier 1)
8. *Santagata, M.C., *Sinfield, J.V., and Germaine, J.T. (2006) "Laboratory simulation of field sampling: comparison with ideal sampling and field data," *Journal of Geotechnical and Geoenvironmental Engineering*, 132 (3), 351-362. (Tier 1)
9. *Sreekrishnavilasam, A., Rahardja, S., Kmetz, R. and *Santagata, M. (2007) "Soil treatment using fresh and landfilled cement kiln dust," *Construction and Building Materials*, 21(2) 318-327. (Tier 1)
10. *Santagata, M.C., Germaine, J.T. and *Ladd, C.C. (2007) "Small strain non-linearity of normally consolidated clays," to appear in February 2007 issue of *ASCE Journal of Geotechnical and Geoenvironmental Engineering*, 133 (1), 72-82. (Tier 1)
11. *Santagata, M.C. and Kang, Y.I. (2007) "Geologic time effects on the initial stiffness of clays," *Journal of Engineering Geology* 89 (1-2), 98-111. (Tier 1)

12. *Bobet, A., *Lee, H.S. and Santagata, M.C. (2007) "Pullout capacity of a stiff inclusion in a saturated poroelastic matrix," *International Journal for Numerical and Analytical Methods in Geomechanics*, in press (available on line). (Tier 1)

Shorter Communications, Letters, Notes or Briefs in Refereed Journals

Refereed Conference or Symposium Proceedings

1. *Santagata, M.C., Bonora, G., and *Collepari, M. (1997) "Superplasticized microcement grouts," *Proc. CANMET-ACI Conference on Superplasticizers and Other Admixtures in Concrete*, Rome, Italy.
2. *Santagata, M.C. and Collepari, M. (1998), "Concrete deterioration caused by exposure to calcium-magnesium acetate aqueous solutions," *Proceedings 2nd Int. Conference on Concrete under Severe Conditions*, Troms, Norway.
3. *Santagata, M.C. and Collepari, M. (1998), "Selection of cement-based grouts for soil improvement," in *Grouts and Grouting*, ASCE GSP No. 80, 177-195, Boston, MA, Oct. 18-21, 1998.
4. *Santagata, M.C. and *Canestrari, F. (1998), "A new laboratory test to evaluate the shear resistance at the interface of thin bonded overlays," *8th International Symposium on Concrete Roads*, Lisbon, Portugal.
5. *Santagata, M.C., Germaine, J.T., and Ladd, C.C. (1999), "Initial stiffness of K_0 -normally consolidated RBBC measured in the triaxial apparatus," *2nd Int. Symp. Pre-Failure Deformation Characteristics of Geomaterials*, (1), 27-34, Torino, Italy.
6. *Hwang, J.H., *Bobet, A. and *Santagata, M.C. (2003) "Laboratory evaluation of the compressibility of a highly organic soil", *Proceedings 11th Great Lakes Geotechnical/Geoenvironmental Conference on Advances in Characterizing and Engineering Problem Soils*, West Lafayette, IN, May 23, 2003.
7. *Santagata, E. and *Santagata M.C. (2003), "Experimental investigation of factors affecting the injectability of microcement grouts," in *Grouting and Ground Treatment 2003*, ASCE GSP No. 120, (2), 1221-1234, New Orleans, LA, Feb. 10-12, 2003.
8. *Sreekrishnavilasam, A., King, S., *Santagata, M. (2003), "Characterization of fresh and landfilled cement kiln dust for reuse-in-construction applications," *Proceedings 4th British Geotechnical Engineering Conference on Integrated Management of Groundwater and Contaminated Land*, Stratford-on-Avon, UK, June 28-30, 2004.
9. *Haldavnekar, V., Bobet, A., Santagata M.C. and Drnevich (2004), "Soil treatment with a thixotropic fluid: an autoadaptive design for liquefaction prevention," *Proceedings 11th International Conference on Soil Dynamics & Earthquake Engineering and 3rd International Conference on Earthquake Geotechnical Engineering*, Vol. 2, 553-560, Berkeley, CA, Jan.7-9, 2004.
10. *Kang, Y.I. and *Santagata M.C. (2006),"One-dimensional compression behavior of cement-treated clay," to appear in *Ground Modification and Seismic Mitigation*, ASCE GSP, Shanghai, China, June 6-8, 2006.

11. *Sreekrishnavilasam, A. and *Santagata, M. (2006), "Effect of particle characteristics on frictional and compression properties of a particulate by-product material," 5th World Congress on Particle Technology, Orlando, Florida, April 23-27, 2006.

Refereed Conference Summaries or Abstracts

Other Submitted Publications

1. *Santagata, M.C., *Bobet, A., *Johnston, C. and *Hwang, J.H., "One-dimensional compression behavior of a highly organic soil," submitted to *ASCE, Journal of Geotechnical and Geoenvironmental Engineering*.

Abstracts in Non-Refereed Conference Proceedings

1. *Geier, D. and *Santagata, M. (2006), "Rheological properties of concentrated suspensions of two bentonite based drilling products," 5th World Congress on Particle Technology, Orlando, Florida, April 23-27, 2006.

Books

Chapters in Books

1. *Salgado, R. and Santagata, M.C. (2001). "Chapter 27: In Situ Testing and Field Instrumentation," in The Civil Engineering Handbook, 2nd Edition, Chen & Liew Eds., CRC Press.

Book Reviews

Government, University, or Industrial Reports (non-refereed)

1. Santagata, M. (1990). The use of blast-furnace slag in concrete structures. MS. Thesis, University of Ancona, Ancona, Italy.
2. *Whittle, A.J., *Germaine, J.T., Cauble, D.F., Geer, M.A., and Santagata, M.C. (1994). Behavior of Suction Caisson Foundations. *Report to MIT Sea Grant College Program and Joint Oil Industry Consortium*, Oct. 1994.
3. Santagata, M. (1994). Investigation of sampling disturbance effects using triaxial element tests. MS. Thesis, Department of Civil and Environmental Engineering, Massachusetts Institute of Technology, Cambridge, MA.
4. Santagata, M. (1998). Factors affecting the initial stiffness and the stiffness degradation behavior of cohesive soils. PhD. Thesis, Department of Civil and Environmental Engineering, Massachusetts Institute of Technology, Cambridge, MA.

5. *Santagata, E. and Santagata, M. (1999). Micro Dig Alpitel (MDA) Research Project: Analysis of Issues Related to Materials and In-Situ Performance, *Report to Societa' Alpitel S.p.A.*
6. *Santagata M.C. and *Bobet, A.(2002). The use of cement kiln dust (CKD) for subgrade stabilization/modification. Report to Indiana Department of Transportation and Lehigh Portland Cement Company.
7. *Bobet, A., Drnevich, V.P., and Santagata, M.C. (2003). Soil treatment with thixotropic fluids: an autoadaptive design for liquefaction prevention. Final Report, National Science Foundation.
8. Hwang, J., Humphrey, A., *Bobet, A. and *Santagata, M. (2004). Stabilization and improvement of organic soils. Report for the Joint Transportation Research Program.
9. Sreekrishnavilasam, A. and *Santagata, M. (2005). Development of criteria for the utilization of cement kiln dust (CKD) in highway infrastructures. Report for the Joint Transportation Research Program.
10. Huang, P.T., Patel, M., *Santagata, M., and *Bobet, A. (2006). Classification of organic soils. Report for the Joint Transportation Research Program.

Publications in Popular Press/Magazines

Invited Publications and Presentations

Invited Publications

1. *Sinfield, J.V. and Santagata, M.C., (1999), "Invited key-note paper - Investigations for the Characterization of Contaminated Sites," XVII Geotechnics Conference of Torino, Nov. 23-25, Torino, Italy.

Invited Presentations

1. "Superplasticized microcement grouts," CANMET-ACI Conference on Superplasticizers and Other Admixtures in Concrete, September 1997, Rome, Italy – based on paper authored by M. Santagata, M. Collepardi and G. Bonora.
2. "Invited key-note presentation - Fiber optic-sensors for the characterization of contaminated sites," XVII Geotechnics Conference of Torino, Nov. 24, 1999, Torino, Italy – based on paper authored by J.V. Sinfield and M. Santagata.
3. "Pre-failure behavior of cohesive soils," Department of Civil Engineering, University of Delaware, March 1999.
4. "Initial stiffness and small strain non-linearity of cohesive soils," Purdue University, School of Civil Engineering, March 2000.
5. "Experimental investigation of factors affecting the injectability of microcement grouts," 3rd International Conference on Grouting and Ground

Treatment, New Orleans, LA, Feb. 12, 2003 – based on paper authored by M. Santagata and E. Santagata.

6. Coal mine spoil as a source of borrow material for Indiana highways,” Indiana Academy of Science,” Annual Meeting, Hanover, IN, Oct. 2003 (oral paper with W. Solomon and T. West).
7. “Soil treatment with a thixotropic fluid: an autoadaptive design for liquefaction prevention,” 11th International Conference on Soil Dynamics & Earthquake Engineering and 3rd International Conference on Earthquake Geotechnical Engineering, Berkeley, CA, January 9, 2004 – based on paper co-authored by V. Haldavnekar, A. Bobet and V. Drnevich.
8. “Soil treatment with a thixotropic fluid: an autoadaptive design for liquefaction prevention”, Purdue Geotechnical Society Workshop, West Lafayette, May 12, 2004.
9. “Characterization of fresh and landfilled cement kiln dust for reuse in construction applications,” 2nd British Geotechnical Conference – based on paper authored by A. Srekrishnavilasam, S. King and M. Santagata, June 29, 2004.
10. “Use of a thixotropic fluid for liquefaction mitigation,” Imperial College, London, UK, June 30, 2004.
11. “Soil treatment using fresh and landfilled cement kiln dust,” Transportation Research Board 84th Annual Meeting, Washington D.C., January 11, 2005 - based on paper authored by A. Srekrishnavilasam, S. Rahardja, R. Kmetz, and M. Santagata.
12. “Laboratory technique for characterizing the small strain non-linearity of soils,” TRB Committee AFS20 on Soils and Rock Instrumentation – Washington D.C., January 11, 2005.
13. “Insights on sampling effects from triaxial element tests and laboratory model sampling,” Workshop on ‘Sample disturbance of soft clays/silts and its implications on soil design parameters’, Norwegian Geotechnical Institute, Oslo, Norway, Jan.31- Feb. 1 2005.
14. “One-dimensional compression behavior of a cement-treated illitic clay,” Purdue Geotechnical Society Workshop, West Lafayette, May 16, 2005.
15. “Sampling disturbance effects in soft clays.” Indianapolis ASCE, August 30, 2005.
16. “Minimum and real sampling disturbance in soft clays,” Warren Lecture, University of Minnesota, October 14, 2005.
17. “Consolidation properties of cement-treated organic soils,” TRB Committee AFS80 on Cementitious Stabilization – Washington D.C., January 24, 2006.
18. “Soil treatment with a thixotropic fluid: pore fluid effects on the liquefaction resistance of sands,” Northwestern University, Evanston, IL, July 6, 2006.
19. “Soil treatment with a thixotropic fluid: pore fluid effects on the liquefaction resistance of sands,” University of Wisconsin, Madison, WI, July 21, 2006.
20. “Organic soils and geotechnical research: challenges and perspective.” Symposium on ‘Organic Soils and Changing Environments’, American Society of Agronomy, Crop Science Society of America, Soil Science Society of America - International Annual Meetings, November 12-16, 2006

Planned or Anticipated Publications

2. *Hwang, J.H., *Santagata, M.C. and *Bobet, A. “Effects of cement treatment on the one-dimensional compression behavior of a highly organic soil,” in preparation for submission to *Geotechnique*.
3. *Santagata, M., Germaine, J.T. and Ladd, C.C., “Stress history effects on the small-strain non-linearity of clay,” in preparation for submission to *ASCE Journal of Geotechnical and Geoenvironmental Engineering*.
4. *Sreekrishnavilasam, A., Dallinger, T., *Santagata, M., “Comparative study of the properties of fresh and landfilled cement kiln dust from a US plant,” in preparation for submission to *ASCE Journal of Geotechnical and Geoenvironmental Engineering*.
5. *Geier, D. and *Santagata, M.C., “Visco-elastic properties of bentonite based suspensions employed in geotechnical engineering applications,” in preparation for submission to *Clays and Clay Minerals*.
6. *Sreekrishnavilasam, A., Dallinger, T., *Santagata, M., “Use of low reactivity fresh and landfilled cement kiln dust (CKD) in controlled low-strength materials (CLSM),” in preparation for submission to *Waste Management*.