



RÉSUMÉ

EDUCATION

PROFESSIONAL EXPERIENCE

DR. MANUEL GUTIERREZ, P.E.

LEAD ENGINEER – LATIN AMERICA

GEOPIER FOUNDATION COMPANY, INC.

Ph.D. Civil (Geotechnical) Engineering, Rensselaer Polytechnic Institute, Troy, NY, 1998

M. Eng. Civil (Geotechnical) Engineering, University of Puerto Rico, Mayagüez, PR, 1993

Civil Engineer (Structural), University of Chile, Santiago, Chile, 1988

B.S. Civil Engineering, University of Chile, Santiago, Chile, 1985

2006 to Present – Lead Engineer Latin America

Geopier Foundation Company, Inc., Mooresville, NC.

Responsible for performing engineering analyses and design using Geopier and Impact Rammed Aggregate Piers for more than 200 projects. Projects range from residential, commercial, and/or industrial buildings, storage tanks, silos, retaining walls, and slopes. Design focus of foundation settlement control, global stability, drainage, and/or liquefaction mitigation. Currently responsible for performing business development and for providing technical support to the Geopier operations in Latin America.

2004 to 2006 – Engineering Manager

Trigon Engineering Consultants, Charlotte, NC.

Responsible for the coordination, supervision, and execution of geotechnical engineering analyses, foundation recommendations, and report preparation. Responsible for the supervision of younger engineers.

2002 to 2004 - Associate Professor

Polytechnic University of Puerto Rico, San Juan, PR.

Teaching of undergraduate and graduate courses: Earth Retaining Structures, Shallow Foundations, Deep Foundations, Geotechnical Earthquake Engineering, Slope Stability, and Soil Improvement.



PROFESSIONAL EXPERIENCE (CONTINUED)

1996 To 2002 – Senior Geotechnical Engineer Geo Cim, Inc, San Juan, PR

Engineering analyses and writing of geotechnical reports with emphasis on foundation recommendations. Testing with Pile Driving Analyzer (PDA). Design of earth embankments, shallow & deep foundation analysis.

1989 To 1990 - Systems Analyst ENDESA, Santiago, Chile

User training and technical support for CAD and FEM software packages. Administrator and consultant for STAIRS databases, ESS and LOTUS spreadsheets; CADAM, MICROCADAM, AUTOCAD, CAEDS, and ICES STRUDL II software.

1989 Structural Engineer RFA Consulting Engineers. Santiago, Chile

Static, seismic analysis, and steel design of beams, columns, frames, connections, plate bases, and shear keys. Design codes based on AISC.

PUBLICATIONS

- *"Centrifuge modeling of surface structure on normally consolidated silty sand deposited in layers under water and subjected to seismic excitation"*. Ph.D Thesis, Civil Eng., Rensselaer Polytechnic Institute, Troy, NY, 1998.
- *"Construction of stress-strain histories from recorded dynamic response"* R. Dobry, A. M. Gutiérrez, M. Zeghal, and A-W. Elgamal. Proc., 5th US - Japan Workshop on Earthquake Resistant Design of Lifeline Facilities and Countermeasures Against Soil Liquefaction, Snowbird, Utah, Sept. 29 - Oct. 1, 1994.
- *"Centrifuge tests of normally consolidated silty sand deposited in layers under water and subjected to seismic excitation. Phase I"* R. Dobry, A. M. Gutiérrez and L. Liu. Rensselaer Polytechnic Institute, Troy, NY, 1993.
- *"Comparison of analytical methods to predict the load-settlement relationship for a pile under axial loading"*. M. Eng. thesis, Civil Engineering, University of Puerto Rico, Mayagüez, Puerto Rico, 1992.
- *"Analysis of slope displacement in the earthquake of March 1985"* H. Musante, P. Ortigosa and A. Gutiérrez. V Chilean Conference of Seismology and Seismic Engineering. Santiago, Chile, 1989.
- *"Sand slope displacements due to seismic loading"*. Civil Eng. Thesis, University of Chile, Santiago, 1988.



GEOPIER
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PROFESSIONAL COURSES

“*Geopier* Technical Workshop”, Scottsdale, AZ, October 2006.

“Soil Improvement: Technologies, Design, and Performance”, Virginia Institute of Technology, December 2006.

“Enhanced In-Situ Testing for Geotechnical Analyses and Foundation Design”, Georgia Institute of Technology, January 2005.

“Design of Gabion Walls”, Maccaferri Corporation, Caguas, PR, September 2003.

“Geotechnical Earthquake Engineering in Mid-America”. University of Illinois at Urbana Champaign, San Juan, PR, May 2003.

“Design of Reinforced Earth Walls”, Keystone Corporation, San Juan, PR, August 2002.

“Finite Element Method and Plaxis Program in Geotechnical Engineering”, Oxford, England, April 2001.

“Soil Nail Wall Design”, Federal Highway Administration, San Juan, PR, May, 1999.

“Slope Stability and Landslides”. University of Wisconsin at Madison, Cincinnati, OH, April 1998.