

ALAN R. CRUMLEY

Fellow, Am. Society of Civil Engineers

Born February 21, 1948 in San Juan, Puerto Rico.

EDUCATION

Bachelor of Electrical Engineering (B.E.E.),
Georgia Institute of Technology, 1969.

Master of Science in Civil Engineering (M.S.C.E.),
Massachusetts Institute of Technology, 1972.

OCCUPATION

Consulting Engineer, Soil Mechanics and Foundations. Specialties in geotechnical engineering: foundation design, excavation design, design of dewatering systems, underpinning design, hydrogeology, landfills, environmental site assessments.

Managing Partner, GEOCONSULT, Geotechnical Engineers. President GeoConsult, Inc.

PUBLICATIONS

- Dewatering of Deep Excavation in Gravity Aquifer in Puerto Rico, to be presented at SARA -Soil and Rock North America, Boston, June 2003
- Dewatering of Deep Excavation in Confined Leaky Aquifer in Puerto Rico, to be presented at SARA -Soil and Rock North America, Boston, June 2003
- Dewatering of Deep Excavation in Gravity Aquifer in Puerto Rico, to be presented at SARA -Soil and Rock North America, Boston, June 2003
- Compressibility Relationships for Soils in Puerto Rico, to be presented at SARA -Soil and Rock North America, Boston, June 2003, with coauthors Américo Fernández and Carlos Regalado
- Liquefaction Evaluation for Río Blanco Offstream Dam, Comparison Between Existing Technologies, to be presented at SARA - Soil and Rock North America, Boston, June 2003, with coauthor Américo Fernández
- Análisis de respuesta dinámica para la represa de Río Blanco: Ejemplo de microzonificación lineal, Revista Internacional de Desastres Naturales, Accidentes e Infraestructura Civil, Volumen 2, Número 1, Mayo 2002, with Américo Fernández
- Influence of Subsurface Details on Braced Excavations in Puerto Rico, Big Digs Around the World GeoCongress, Boston, ASCE National Convention, October 1998
- Design for Forty-foot Braced Excavation in Mayagüez, Magazine of the Puerto Rico College of Engineers and Surveyors, 1976
- Failure of Two Bridge Abutments due to Negative Skin Friction, Paper No. 3579, with co-authors at the Annual Convention of the American Society of Civil Engineers, Atlanta, Georgia, October 1979

Excavación Profunda en Arecibo, Magazine of the Puerto Rico College of Engineers and Surveyors, 1980.

Utilización de los desperdicios sólidos producidos por la industria de la construcción, presented at "Cumbre de la Construcción," San Juan, September 1995.

Desagüe de dos excavaciones usando el metodo "*tremie*", Magazine of the Puerto Rico College of Engineers and Surveyors, March 1995

Diseño de una excavación profunda en Villa Carolina", Magazine of the Puerto Rico College of Engineers and Surveyors, November 1995.