Department of Civil Engineering and Engineering Mechanics
Columbia University

SHORT COURSE

on

“Load and Resistance Factor Design (LRFD)”

Design and Analysis of Structural Foundations and Earth Retaining Walls

February 4&5, 2008 (1.5 days)
Monday (1:00 pm-5:30 pm), Tuesday (8:30 am-5:30 pm)

by

Mr. Jerry A. DiMaggio
Principal Bridge Engineer – Geotechnical
Federal Highway Administration, Washington, D.C.

The United States surface transportation community has adopted a Load and Resistance Factor Design (LRFD) platform in late 2007. LRFD, or as known internationally “limit states” will replace the traditional design platforms of allowable stress and load factor design in US practice. Internationally, limit state design has been mainstreamed into the National design practice of many countries. This one-day seminar will focus on the geotechnical aspects of LRFD as presented in the 2007, 4th edition, of the American Association of State and Highway Transportation Officials (AASHTO) LRFD Specifications.

Topics:
• Principles of Limit States Design
• Loads and Load Combinations
• Subsurface Investigations
• Soil and Rock Design Properties Determination in LRFD
• Shallow Foundations in Soil and Rock
• Driven Pile and Drilled Shaft Design
• Cut and Fill Earth Retaining Structures

Jerry A. DiMaggio, P.E. is Principal Bridge Engineer – Geotechnical and National Program Manager with the U.S. DOT, Federal Highway Administration in Washington D.C. He holds B.S. and M.S. degrees in Civil Engineering from Clarkson University and is a registered professional engineer in several states. Mr. DiMaggio is a certified Master Trainer and licensed Contract Arbitrator (AAA). He has provided consulting technical design and construction assistance on over 900 transportation projects in all 50 states, throughout Central and South America, and several Middle Eastern countries. He has presented over 300 seminars and workshops for professionals on design and construction of bridges, retaining walls and engineered earthworks. He is a member of the adjunct faculty at the University of Delaware, Johns Hopkins University in Baltimore, and The University of Akron in Ohio. He has been the invited Keynote speaker at over 30 national meetings and conferences around the Nation.

Mr. DiMaggio is currently a member of several national committees and task forces for the development of technical guidelines, specifications and testing standards related to geotechnical and foundation practice. He has been closely involved with the development and implementation of the LRFD specifications. He has received numerous National and International recognitions and awards including: the U.S. Department of Transportation’s Silver Medal, the Geosynthetics Society Achievement Medal (presented in Nice France), FHWA’s “Engineer for the Year”, and recently (2007) he received special awards for his career contributions from the Transportation Research Board, and The International Association for Foundation Drilling. Mr. DiMaggio currently serves on the ASCE Geo-Institute National Board of Governors.

Registration Deadline: January 25, 2008 ($400 per participant, limited to 50 Participants)
http://www.civil.columbia.edu/ling/LRFD
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Fee: A check of $400 should accompany with the registration.

Registration Form
Downloadable at http://www.civil.columbia.edu/~ling/LRFD
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