PROPOSED SHORT COURSE FOR 47TH U.S. SYMPOSIUM ON ROCK MECHANICS, SAN FRANCISCO, JUNE 2013

Title: Analysis and Design of Foundations On and In Rock

Instructor: Dr. Fred H. Kulhawy, P.E., G.E., Distinguished Member, ASCE Consulting Geotechnical Engineer & Professor Emeritus, Cornell University

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Objective: To provide a modern overview of rock foundation engineering.

Proposed topics include the following: overview of foundations on rock, field exploration-rock drilling-core logging-RQD, geophysical exploration, the soil-rock boundary, uncertainty in basic rock properties, behavior of shafts in rock under various loading modes, foundations in discontinuous rock, sockets, uplift anchors, overall design issues, and more. The focus is on up-to-date methods to address these issues in a practical, cost-effective manner.

A large majority of this course is based upon research and studies done by the author at Cornell and upon his consulting practice.

Course date: June 22(??), 2013, 8:00-5:00 w 45 minutes lunch and two breaks

Registration fee: \$295 (?? or what is the going rate?)

Instructor C.V.:

Dr. Fred H. Kulhawy is an internationally-acclaimed educator, consultant, and researcher, who has received numerous prestigious awards for his work from ASCE, ADSC, CGS, IEEE, and others, including election to Distinguished Membership of ASCE, the ASCE Karl Terzaghi Award and Norman Medal, and the CGS Meyerhof Award. He is Professor Emeritus in Geotechnical Engineering and Geology at Cornell, and he has lectured widely, giving over 1440 presentations around the world. His teaching and research has focused on foundations, soil-rock-structure interaction, reliability, soil and rock behavior, and geotechnical computer applications. As a consultant, he has had extensive experience on six continents, with much of his experience dealing with foundation engineering and soil/rock property evaluation. In research, he has pioneered on many fronts, most notably with drilled foundations and property evaluation since the mid-1970s. His research and practice on these topics constitutes a majority of this course.

Audience: All geologists and engineers who deal with foundations, from site evaluation through design, will benefit from this course.