CANADIAN GEOTECHNICAL SOCIETY – CALGARY BRANCH
CANADIAN SOCIETY FOR CIVIL ENGINEERS – CALGARY SECTION

Two One Day Short Courses (June 16th and 17th, 2005)

Estimation of Soil Properties for Foundation Design
Geotechnical Uncertainty and Reliability-Based Foundation Design (RBD)

WHAT THESE COURSES ARE ABOUT

Estimation of Soil Properties for Foundation Design

The first day (June 16, 2005) will be broken into eight sessions. Morning topics will include strategies for evaluation of soil properties and inference in soil property assessment, an evaluation of in-situ test types including SPT and CPT tests, and assessment of soil properties based on these tests. The afternoon will include evaluation of in-situ stress, strength (effective and total stress) and deformability of soils, followed by a discussion period.

Geotechnical Uncertainty and Reliability-Based Foundation Design (RBD)

The second day (June 17, 2005) is an intensive short course. The morning session will introduce Limit States Design for foundations, which will be required under the 2005 Canadian Building Code, and provide an overview of the related Reliability-Based Design (RBD) method for foundations including a practical RBD approach for foundation engineering developed in North America. This will be followed by a discussion of the basic concepts, analytical tools and models for RBD. The afternoon session will focus on applications of RBD for foundations including evaluation of static soils parameters, modelling and development of soil design parameters. This will be followed by RBD equation basis and RBD example calculations.

Each day will be independent, so participants can attend either one day or both days. The Calgary Geotechnical Society is subsidizing the Day 1 cost for National Canadian Geotechnical Society members.

WHO SHOULD ATTEND

The first day will be most helpful to geotechnical engineers. The second day will be valuable to those interested in Limit States Design for foundations, including: geotechnical and structural engineers, architects, and government officials.

COURSE DETAILS

Date:	June 16 and 17, 2005
Time:	Registration begins at 7:30 a.m. Course times 8 am to 5 pm
Location:	Austrian Canadian Cultural Centre 3112 11 Street NE, Calgary, Alberta

COST:[1]

Non Members	$250/day
CGS[2] Members on Day 1	$100
CGS[2] and CSCE Members on Day 2	$200
Full Time Students	$50/day

[1] Includes course notes, two coffee breaks and lunch.
[2] National Canadian Geotechnical Society

Registration Information

Pay at the door (cash or cheques), but pre-registration is required. Please register before June 13 by calling the APEGGA office at 262-7714. Full payment is required unless cancellation is received before June 8. Documentation of CGS/CSCE membership is required when paying.

Please contact Chris Workman (403-253-9217 or cworkman@thurber.ca) for further information.

SPEAKERS

Professor Fred Kulhawy, Ph.D., P.E. G.E.

Fred Kulhawy is a professor at the School of Civil and Environmental Engineering and Graduate Faculty of Geological Sciences, Cornell University, Ithaca, New York, and heads their Geotechnical Engineering Program. Professor Kulhawy has lectured widely, having given over 1000 presentations around the world. As a consultant, he has extensive experience worldwide, with much of this dealing with foundation engineering and soil/rock property evaluation.

In research, he has pioneered on many fronts, most notably with foundations and property evaluation since the early 1970's. Since the early 1980's, he has focused on geotechnical uncertainty and RBD for the electric utility industry. His research on these topics constitutes a majority of Day 2 of the short course. Professor Kulhawy is a member in good standing of the Canadian Geotechnical Society, served as Associate Editor of the Canadian Geotechnical Journal from 1992 to 2002 and presented the prestigious CGS Cross Canada Lecture Tour in 1988.

Dennis Becker, Ph.D., FEIC, P.Eng.

Dennis Becker is a Senior Geotechnical Engineer and Principal of Golder Associates with over 25 years of experience on numerous large-scale civil engineering and resource development projects. He has experience with most aspects of geotechnical engineering and has developed extensive and varied areas of expertise.

Dr. Becker is active in many engineering and professional societies. He is now President of the Canadian Geotechnical Society, and serves on technical committees of the Canadian Standards Association, the National Building Code of Canada and the Canadian Highway Bridge Design Code, being extensively involved with the development and implementation of limit states design for foundations.