



January 2012 Course Outline

C10 Design of Earth Supported Structures

Offered via the classroom only

Purpose: This course will examine several types of foundation and earth retaining structures. For each type of structure, theory and philosophies underlying the common design methodologies will be presented, along with practical design procedures.

Selected Topics: Soil – Structure Interaction; Shallow Foundations- Design, Code Provisions review, Rafts – Simplified Analysis and Computer Solution; Seismic Design Considerations; Piles ; Geotechnical Aspects of Foundation Design; Earth Retaining Structures; Slabs on Grade – Industrial Floors, Design and Construction; New Underground Structural Systems; Foundation Vibration.

Instructors: **Andrew Vizer**, P.Eng., Director of Engineering, Cement Association of Canada; **Carlos Ventura**, Ph.D., P.Eng., Professor, Department of Civil Engineering, UBC; **Alex Sy**, Ph.D., P.Eng., Klohn-Crippen Consultants Ltd.; **Bob Schubak**, Ph.D., P. Eng., B.C. Hydro

Contact: **Andrew Vizer**, e-mail: avizer@cement.ca

Communications: Notices to students and questions outside of class will be handled strictly through e-mail.

Student Code of Conduct: Registration in this course confirms that the student has read, and will abide by, the Student Code of Conduct: http://seabc.ca/documents/course_outlines/StudentCodeOfConduct.pdf

Schedule: 12 Thursdays, 4:00 P.M. to 6:00 P.M., January 26 to April 19, 2012 (**Mid-term break:** March 8)

Venue: Alma Van Dusen Room, Vancouver Public Library, 350 West Georgia Street, Vancouver