



Vancouver Geotechnical Society

A Local Section of the Canadian Geotechnical Society

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NOTICE OF UPCOMING DINNER PRESENTATION THURSDAY, MAY 20, 2010

SUBJECT: Ongoing Challenges in Engineering Geology for Tunneling in Difficult Ground

SPEAKER: Dr. Paul G. Marinos
Professor, National Technical University of Athens School of Civil Engineering

Dr Paul Marinos received a Mining Engineering degree from the School of Mines of the National Technical University of Athens, Greece in 1966, a postgraduate degree in Applied Geology from the University of Grenoble, France, and his Doctorate in Engineering Geology from the same University in 1969. He worked for French and Greek design and construction companies until 1977 and then was elected as Professor at Democritus University in Northern Greece. Since 1988 Dr Marinos has been Professor of Engineering Geology in the School of Civil Engineering in the National Technical University of Athens and has served as head of the Geotechnical Section of the School for several years. Dr Marinos and his team conduct research on a variety of applications of geology to engineering, mainly rock mass characterization, weak rock properties and behavior, with special emphasis to tunnel design. His work also covers landslides, dam geology, and engineering in karstic terrain. Beyond his research, Dr Marinos has extensive industrial experience having served as consultant, independent reviewer and member of consulting boards or panel of experts on major civil engineering projects throughout Europe, North Africa and Southeast Asia.

CONTENT: The growth of infrastructure needs has increased demands for the excavation of tunnels in poor ground or varying geological conditions. This development includes site investigation techniques, analytical design method, risk analysis, techniques of construction, and monitoring. The assessment of ground for design has to be based on a sound understanding of the regional geological rules and the establishment of a geological model where data and conditions are translated into an engineering geology description. Tunnel design requires knowledge on the quality of the material in which the tunnel will be constructed. The lecture explores and discusses methods that can be used by Engineering Geologists to assess the geological factors that have an impact on the design, including rock mass classification, in-situ stress field, the idealization process, and defining ground behaviour such as brittle failure, gravitational falling sliding or raveling, formation of a “plastic” zone, and swelling. Examples of geological models and cases from both mountain and urban tunnels under complex or difficult geological conditions are presented.

DETAILS **Executive Inn**, 4201 Lougheed Highway, Burnaby, BC V5C 3Y6 (Phone: 604-298-2010)
Social Hour: 5:30 to 6:30 pm (drinks available at the hotel bar)
Technical Presentation: 6:30 to 7:30 pm
Dinner: 7:45pm (\$10 will be charged for dinner to cover a small portion of the cost.)
RSVP: Dinner reservation to cwilliams@golder.com by Monday, May 17, 2010