



Thursday, 21 May 17:00 to 19:00 hrs (GMT +0)

The Institution of Civil Engineers

One Great George Street, Westminster, London SW1P 3AA

BTSYM Workshop

Tackling Uncertainty in Tunnelling

Workshop Leaders:

Dr Vasilis P. Marinos

Assoc. Prof., Aristotle University of Thessaloniki

1st Part - Engineering Geological Evaluation for the Geotechnical Design of Tunnels, with Special Emphasis to Tunnel Behaviour Appraisal: Experiences from 62 tunnels in Greece

The presentation argues that the use of classification ratings must be accompanied by an understanding of the actual rockmass behaviour in tunnelling. The assessment of ground behaviour in tunnelling is based on the identification of the rockmass type and the engineering geological characteristics - “keys” that dictate the stability or instability of the tunnel. Having defined the most critical failure mechanism and the temporary support philosophy, principles for every behaviour type are discussed in order to contain and control the specific failure mechanism upon excavation. Within this framework, a classification scheme for assessing the rockmass behaviour in tunnelling is presented. This study is based on the experience from the design and construction of 62 mountain tunnels in northern Greece, through a wide variety of geological conditions.

Dr Andreas Benardos

Assoc. Prof., National Technical University of Athens

2nd Part - Challenging Uncertainty and Cost in Underground Engineering

The presentation focuses on issues relating to the problems and risks encountered in underground construction giving special focus on the inherent uncertainty of the geotechnical conditions, its management and on the potential solutions that can assist in proactively assessing potential problematic zones with greater efficiency. In addition, cost characteristics of underground projects are going to be addressed utilizing as-built data coming from a dataset containing numerous modern-day Greek tunnels and revealing the linkage between construction cost and the prevailing geotechnical conditions in terms of GSI.

For more information contact DivikBandopadhyaya@lba.london

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