



Thursday 3rd of November 2022 at 18:00 to 19:00 hrs
London ICE – Telford Theatre, SW1P 3AA

BTSYM Evening Lecture

Re-thinking Tunnelling: Adjusting our Current Practices to New Norms

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The increase in world population and the development of metropolises and megacities have imposed the underground space's exploitation, contributing to emerging underground space development. Especially during the last decade in the underground and tunnelling industry world market, there has been a 5-7% annual increase with mainly China and India, governing more than 50% of the market share. As a result, engineers, geoscientists are constantly confronted with new problems and challenges they must overcome (or avoid). Due to this market increase, there is an urgent need for design optimisation of such structures to reduce construction costs while targeting the projects' sustainability. Thus, it is necessary to redefine the design boundaries of current practices. The presentation discusses specific challenges, such as long-term (time-dependent) behaviour, uncertainty, sustainability etc., which are currently more and more common in tunnelling. Finally, it proposes solutions utilising the acquired knowledge from empirical methods and combining it with numerical analysis techniques.

Note: This in-person lecture will also be streamed live at https://youtu.be/2hmeBArxJ_8

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