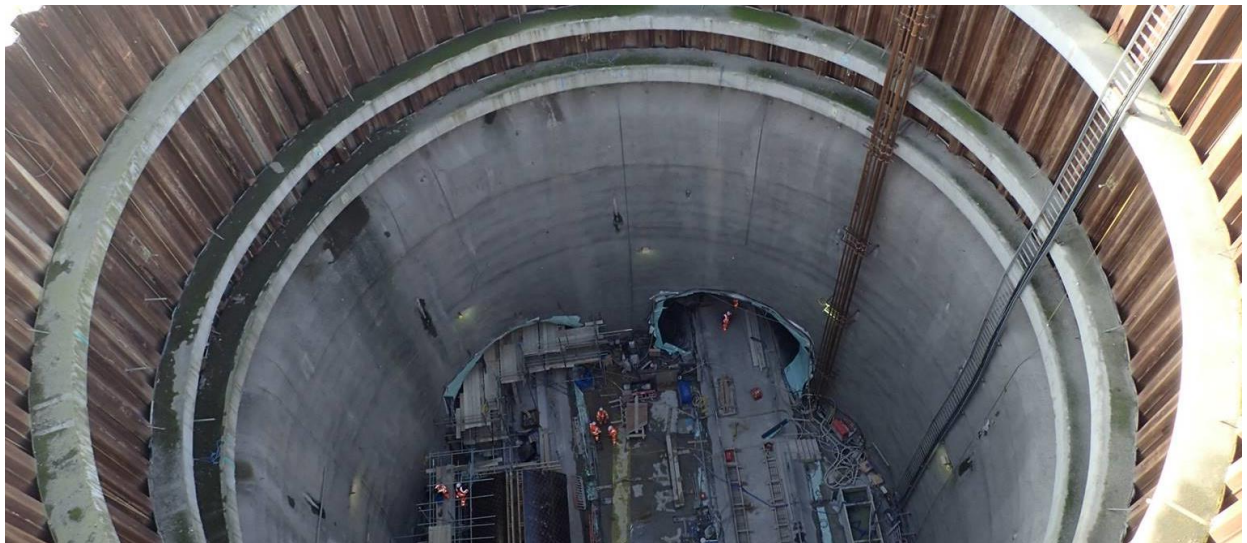




Thursday 6th June at 18:00 hrs

The Institution of Civil Engineers, Telford Theatre,
One Great George Street, Westminster, London SW1P 3AA

Ground Movement due to Circular Shaft Construction in London Clay



Presenters:

Dr Njemile Faustin *CEng MICE*, AECOM (formerly University of Cambridge)

Professor Lord Robert Mair *CBE FEng FRS FICE*, University of Cambridge

Until recently, there were few well-documented case studies of circular shafts, which made it difficult to estimate reliable ground movements arising from such construction. Careful interpretation of field observations of ground surface settlement during construction of 27 circular shafts built for Crossrail, London Power Tunnels and Northern Line Extension, together with centrifuge model testing in the geotechnical centrifuge at Cambridge University, provides new insight into the ground movements arising from circular shaft construction.

Dr Faustin and Professor Lord Mair present normalised charts to estimate the settlement due to circular shaft construction in London Clay with due consideration for different shaft geometries and construction methods.

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