



## Geotechnical insights into the performance of circular shafts

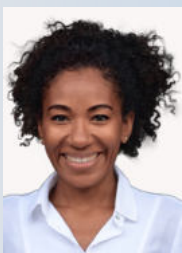
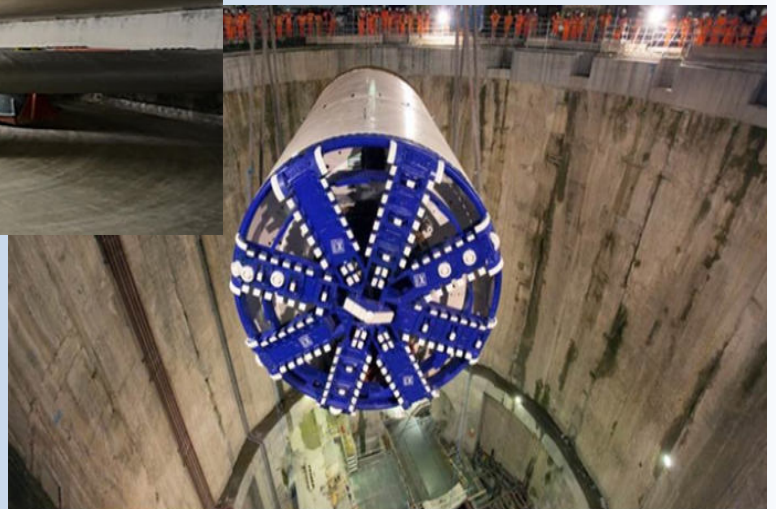
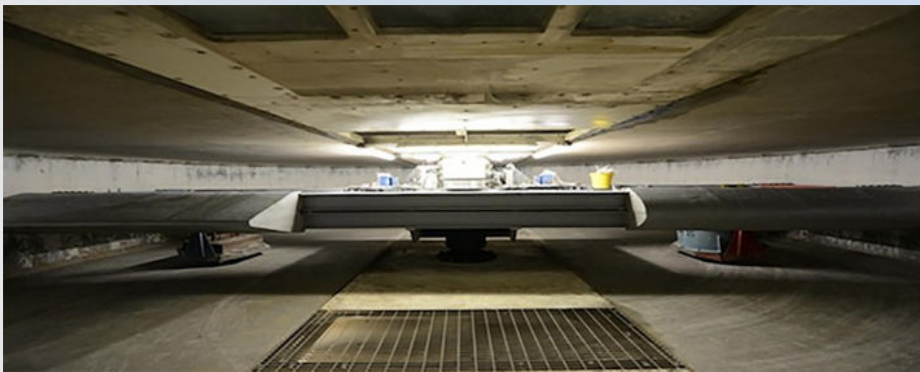
**Dr. Njemile Faustin**

Shafts are a key aspect of most underground tunnel schemes.

Circular shafts are generally preferred over other plan geometries because they are inherently stiffer and more efficient at resisting in-situ horizontal earth pressures.

However, there is limited understanding of the performance of these circular shafts in clays and the associated ground movements due to construction.

The presentation will describe key findings from field observations of circular shaft construction assembled from three major tunnelling projects in the United Kingdom and novel centrifuge model tests of shaft excavations that were conducted using the geotechnical centrifuge at the University of Cambridge.



Njemile Faustin works at AECOM in the Ground, Energy & Transactions Solutions division.

She is a Council Member of the Institution of Civil Engineers and holds a PhD from the University of Cambridge, an MSc in Soil Mechanics from Imperial College and a BSc (Hons) from the University of the West Indies.

**(\*) Registrati all'evento per ottenere il link**

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