

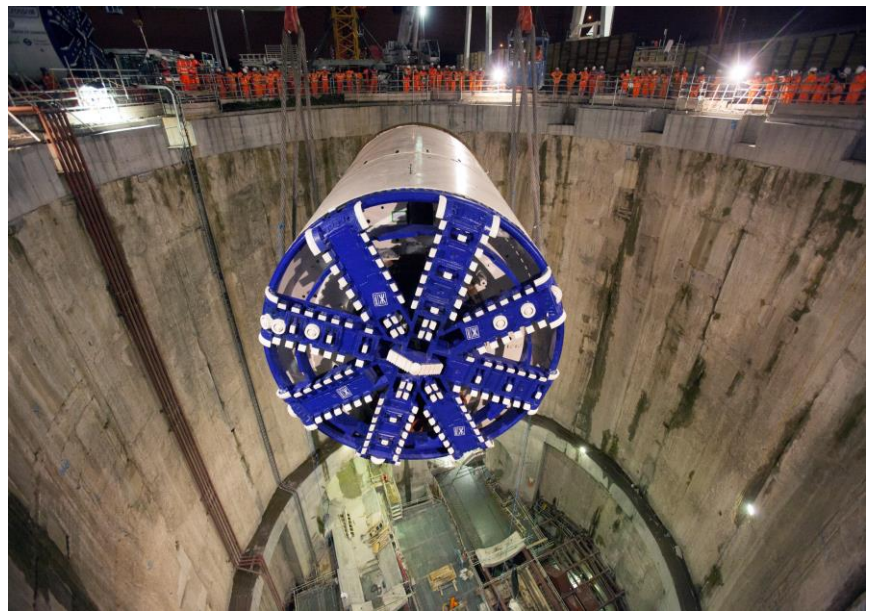
# London Cross Rail Metro Project

**Martin Knights**

Senior Vice President, Tunnels and Earth Engineering, CH2MHill

**WEDNESDAY, November 4th at NOON in BB W210**

- lunch provided -



London has many major tunnelling works, both underway and planned for construction over the next few years. One of these projects is Cross Rail, a new metro that is expected to increase the London Underground capacity by 10% by 2019 when construction and commissioning of the new metro is completed. The underground works includes 20 km of twin rail tunnels and 6 central underground stations using TBM and SCL methods of tunnelling, costing 28 billion dollars. Mr. Knights will describe general aspects of the mining and civil engineering works of this project and will focus on lessons learned.



Martin Knights has over 40 years post graduate experience in civil engineering in urban infrastructure projects, particularly in tunnelling and geotechnical engineering. He is a past president of the International Tunnelling Association and has worked on international projects such as CERN, Geneva, hydro projects in Africa and India, metro projects in London, Sydney and New York, and road tunnels in The Middle East. He is a Fellow of the Institution of the UK Civil Engineers and a Fellow of the Royal Academy. Martin is a Senior Vice President and Senior Technology Fellow with CH2MHill and a member of CH2MHills' Global Operations Board.

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