



Thursday 4<sup>th</sup> April at 18:00 hrs

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

## Ottawa Light Rail



**Presenter:** Thomas Schwind, Technical Director, Dr. Sauer & Partners

The confederation line in Ottawa comprises 15 stations and stops; its centrepiece is a 2.5km long tunnel with three underground stations below downtown Ottawa. The mined construction method for the stations was chosen in order to minimise the impact to the surface. The underground stations are located directly adjacent to existing, sensitive and sometimes historic buildings requiring detailed studies of risks during construction and risk mitigation measures. This presentation will look at the detail behind the design and subsequent construction of three large caverns at shallow depth and twin track running tunnels in rock.

### **About the Presenter:**

Thomas Schwind is the Technical Director at Dr. Sauer & Partners where he has spent 20 years of his career to date working across many international projects including Metro de Santiago in Chile, Beacon Hill in Seattle, Green Park, Crossrail, Tottenham Court Road and Bank in London. He has specific experience in evaluating ground conditions, designing sprayed concrete lining (SCL) structures, geotechnical engineering and performing numerical analysis. He is currently active as the Technical Director for SCL Design for the Bank Station Capacity Upgrade in the UK as well as for the Eglinton Light Rail Project in Toronto, Canada.

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