Abstract
Modern design and analysis tools give increasing opportunities to designers and builders to come up with innovative building solutions that are particularly tailored to a preferred way of working, allowing contractors to develop and refine ways of working that can be incrementally improved over a large number of projects. John’s talk will outline innovations on a number of projects including the Leadenhall building which has been topped out this year. This 224m tower, designed by Rogers Stirk Harbour for British Land and Oxford Properties, is a dramatic megaframe structure with a dramatic 30m high public space at the base. Working in collaboration with the client’s engineering team of Arup, Laing O’Rourke developed three major innovations that contributed to the project’s success. The lessons learned from Leadenhall Building have led to the development of new solutions that have been trialled and tested and that are now being planned to be built on LOR projects in the UK, Americas and Australia.

About the Speaker - Dr. John Stehle
Dr John Stehle studied at the University of Melbourne, completing his PhD in 2001. He is a Structural Engineering Leader in Laing O’Rourke’s Engineering Excellence Group based in London and works on projects around the world. John leads a team of engineers who are focussed on research, development, invention and innovation of new engineering solutions for buildings and infrastructure. John’s work at Laing O’Rourke (LOR) ranges from pure research, where he looks after several of the 20 PhD’s that LOR fund, to applied research, testing and product development. This research and development has led to 4 patent applications as well as many innovative building solutions. John has also worked in Sydney and Dubai.

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