



# Lichfield Science & Engineering Society

LICHFIELD **GARRICK**  
*Theatre & Studio*

CHAIRMAN

Carol Hannam

PATRON

Mr Ian Dudson CBE

HM Lord Lieutenant of Staffordshire

PRESIDENT

Dr Zsuzsanna Nagy

MD, MA, DPhil

**8:00 pm on Tuesday, 4th April 2017**  
**in the Studio Theatre of the Lichfield Garrick, Castle Dyke, Lichfield**

## **THE FORTH REPLACEMENT CROSSING – PLANNING, DESIGN AND CONSTRUCTION**

**Lawrence Shackman, BSc CEng FICE FCIHT**  
**Queensferry Crossing Project Manager**  
**Transport Scotland**

The Queensferry Crossing is due to open in May 2017. The stunning, globally unique bridge forms the centrepiece of a major upgrade to the important cross-Forth transport corridor in the east of Scotland. The 1.7 mile structure will be the longest three-tower, cable-stayed bridge in the world. The innovative design provides extra strength and stiffness, allowing the towers and the deck to be more slender and elegant.

In January 2008 Lawrence Shackman was appointed Transport Scotland's Project Manager for the Forth Replacement Crossing, having spent 18 months as Project Manager for the Forth Replacement Crossing Study, the extensive appraisal of options which provided the evidence for the Scottish Government's decision to build the bridge.

Lawrence graduated with a BSc. in Civil Engineering from Nottingham in 1985. He has extensive experience of the design, construction and maintenance of trunk roads having held management positions in the agency's network management and construction divisions. He was lead engineer on the Scottish Road Network Landslides and Climate Change Studies and is Transport Scotland's Supervising Civil Engineer. In his early career Lawrence was a project manager with Thorburn Colquhoun, now AECOM, where he worked extensively on several projects including the A14 M1-A1 link. During 2014 and 2015 Lawrence was Chairman of the Glasgow and West of Scotland branch of ICE and is currently Vice Chairman of ICE Scotland.

For further information, please see our website at [www.LSES.org.uk](http://www.LSES.org.uk)  
Students and Members Free.

Visitors £5.00. Tickets are not issued in advance, please pay at the door.

Members must sign in. Those signing in before 7:50 pm will have precedence over all visitors.

This lecture is expected to finish by 10.00 pm.