



CHAIRMAN

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# Lichfield Science & Engineering Society

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Mr Ian Dudson CBE

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LICHFIELD **GARRICK**  
*Theatre & Studio*

PRESIDENT

Professor Peter A Lambert

**7:30 pm on Wednesday, 8th May 2019**  
**in the Studio Theatre of the Lichfield Garrick, Lichfield, WS13 6HR**

## **The Society's Annual General Meeting**

**closely followed at 8:00 pm**

**by**

## **THE LOVELL TELESCOPE AND JODRELL BANK: ENGINEERING THE SCIENCE OF RADIO ASTRONOMY**

**Professor Simon Garrington**

**University of Manchester**

**Associate Director for Jodrell Bank Observatory,**

**Director of e-MERLIN (UK VLBI National Radio Astronomy Facility)**

Simon Garrington is the director of the e-MERLIN/VLBI National Facility and an associate director of the Jodrell Bank Centre for Astrophysics. e-MERLIN is operated by the University of Manchester for STFC. It combines 7 telescopes across the UK to carry out high resolution radio imaging and is used by radio astronomers around the world to study the formation of stars and planets and the evolution of galaxies and the black holes at their centres.

Simon did his PhD and post-doctoral work at Jodrell Bank Observatory, University of Manchester. Using radio polarisation observations of radio galaxies and quasars his work helped to establish that the spectacular jets of plasma which we see in these objects travel close to the speed of light. After working on MERLIN, he has led the e-MERLIN project from its design to its commissioning. He is closely involved with the operation and maintenance of the 76-m Lovell Telescope, from scientific and engineering perspectives.

Simon will talk about how the Lovell Telescope was conceived, built and re-built over the last 60 years, as an example of the interplay of science and engineering. The pioneering development of long distance interferometry - connecting telescopes over 100s of km - runs in parallel to the story of the big dish and culminates in the e-MERLIN network in the UK, as well as inspiring the technique of inter-continental VLBI which is behind the recent image of the 'shadow' of the black hole in M87.

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.