



CHAIRMAN

Carol Hannam

# Lichfield Science & Engineering Society

PATRON

Mr Ian Dudson CBE

HM Lord Lieutenant of Staffordshire

LICHFIELD **GARRICK**  
*Theatre & Studio*

PRESIDENT

Professor Rex Harris

FREng., FIMMM, FInstP.

**8:00 pm on Thursday 12<sup>th</sup> February 2015**  
**in the Studio Theatre of the Lichfield Garrick, Castle Dyke, Lichfield**

## **LIGHTS, CAMERA .... ACTION!** **Seeing inside the living cell**

**Dr Peter March**

**Bioimaging Senior Experimental Officer**  
**Faculty of Life Sciences**  
**The University of Manchester**

Originally from Leeds, Peter defected over the Pennines to do his degree and then PhD in the School of Life Sciences at the University of Manchester. It was during his PhD that Peter realised that microscopy not only provided a tool to understand biological questions, but also provided an opportunity to be part of a rapidly developing technology.

In 2000 Peter took over the running of the Bioimaging Facility, which then consisted of 3 microscopes in converted toilets. It has since grown and now has over 20 microscope systems in a purpose designed imaging suite. This represents an investment of over £3 million in imaging technology within the Bioimaging Facility and this is enabling experiments from single molecule imaging through to imaging cells deep inside living animals.

This talk will look at the development of imaging technology and how physics, chemistry and engineering are all contributing to biological imaging. Using these techniques researchers are now able to identify, and follow, single molecules inside living cells to gain an insight into how proteins interact, how cells control themselves and also how they interact with other cells within the tissue. We're asking the cells to get ready for their moment of fame, it's "Lights, Camera .... Action!"

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

**Students and Members Free.**

**Visitors £5.00 but note that Members will have priority admission.**

**Tickets are not issued in advance: please pay at the door.**

**Students and Members must sign in.**

**This lecture is expected to finish by 10.00 pm.**