



CHAIRMAN
Alan Hooper

Lichfield Science & Engineering Society

PATRON
Sir Ian Dudson KCVO, CBE
HM Lord Lieutenant of Staffordshire

LICHFIELD **GARRICK**
Theatre & Studio

PRESIDENT
Professor Janet M Lord
CBE FMedSci

TOO MUCH INFORMATION?

USING POLYMER SCIENCE TO TACKLE THE DATA STORAGE CRUNCH.

**Dr Matt Derry PhD., MChem.
Aston University**

**8:00 pm on Thursday, 6th February 2025
In the Lichfield Garrick Studio Theatre**

Dr Matt Derry studied Chemistry with a Year in Industry at the University of York and obtained his MChem degree in 2012. This was followed by an industry funded PhD in polymer chemistry at the University of Sheffield, where he used polymer synthesis and self-assembly techniques to develop new additives for automotive oil. He then continued at the University of Sheffield as a Research Associate to study block copolymer self-assembly using synchrotron X-ray scattering techniques. In 2019, Matt joined Aston University as a Lecturer in Chemistry and was promoted to Senior Lecturer in 2024. He is a co-founder of the newly established Aston Institute for Membrane Excellence (AIME) and leads a team of PhD and postdoctoral researchers who are developing new polymer materials for a range of applications including energy storage, data storage and water filtration.

We live in a digital age and the amount of data we generate, the cost and the power requirements of storing it are increasing at an astronomical rate. What happens if we run out of space for this data and what are the viable solutions? Could polymer science play a role in tackling this issue? This talk will explore how we could harness molecular interactions to enable next generation data storage solutions.

For further information, please see our website at www.LSES.org.uk
Students and Members Free.

Visitors £8.00. 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 9.30 pm.