International seminar

Problems and Solutions to Global Resource Consumption

Dr Elliot Woolley, Loughborough University, UK

March 12th 2018, 19.20-21.00, room D201

The rich range of resources on planet Earth are extremely useful for powering transport, making products and providing comfortable lifestyles. Unfortunately many of these resources are also finite. With a growing and aging global population and an explosion in consumption, it is likely that many resources will become short in supply in the next few decades. This will create some interesting challenges for the manufacturing industry (a heavy consumer of energy, materials and water). In this lecture we will examine some of the evidence that highlights potential resource shortages we are likely to face and then explore a few solutions that could be implemented in industry to prevent or reduce the severity of these imminent resource shortages.

Dr Elliot Woolley

* Dr Woolley obtained an MPhys in Applied Physics in 2003 from the Nottingham Trent University and his PhD in the field of atomic physics and nuclear magnetic resonance in 2007 from the University of Nottingham.
* He has industrial experience working for an international research and technology organisation where he was a key member of a highly successful team of funding specialist, developing R&D projects for a wide range of innovative small and medium sized manufacturing enterprises.
* Dr Woolley joined the Loughborough University in 2010 in a business strategy development role for the Competitive Sustainable Manufacturing research cluster.
* In April 2012 appointed as a Lecturer in Sustainable Manufacturing within the Wolfson School of Mechanical and Manufacturing Engineering at Loughborough University.