

HIRSCH LECTURE 2019

4:30pm, Friday 8 February 2019

'Triboreacted materials as functional interfaces in internal combustion engines and medical implants'

Lecture Room 1, Thom Building,
Department of Engineering Science, Parks Road, Oxford

Professor Anne Neville

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4pm Afternoon Tea (Holder Common Room)

4:30pm Hirsch Lecture (Lecture Room 1, Thom Building)

5:30pm - 7pm Drinks Reception (Holder Common Room)

Dress code: smart/casual

Abstract:

Reducing CO₂ and particulate emissions to halt global warming and improve the air cleanliness in developed and developing nations is urgent. A similarly large challenge is the provision of medical implants that will serve the ageing population. Both challenges are underpinned by the need to understand important functional interfaces.

This talk will focus on the engine and the hip and will present how an understanding of the interactions between tribology and chemistry/corrosion play a crucial role in the interfacial friction, wear and integrity. The integration of state-of-the-art surface science with engineering simulations in both of these areas enables engineers to create optimised systems with improved performance.

Reserve afternoon tea/drinks reception by emailing lorraine.laird@materials.ox.ac.uk

