East Midlands Materials Society

A Local Society Affiliated to the Institute of Materials, Minerals and Mining

IOM3 Local Society of the Year 2019

TECHNICAL MEETING: A TALK ENTITLED

Titanium – a Titan in Aero-Engine Applications

Dr. Kate Fox Associate Fellow in Light Alloys, Rolls-Royce plc, Derby, UK

Joint meeting with the Royal Aeronautical Society Derby Branch and the IMechE Derby and Nottingham Area Committee

Titanium alloys are used widely in the aero-engine industry due to their excellent specific properties and corrosion resistance, this talk will review threats from service operation of jet engines. Some fundamental aspects of the crystal structure of titanium alloys mean that it can exhibit some quirky mechanical behaviour particularly at relatively low temperatures. My talk will discuss the multi-scale challenge of understanding mechanical performance and will give some examples of where application of advanced characterisation tools and modelling techniques has shed light on failure mechanisms such as cold dwell fatigue

IOM3 Approved for CPD

WEDNESDAY 15 Feb 2023 @ 6.30 for 7.00pm

Venue: University of Derby, Room MS125, Markeaton Street campus, Pybus Street off Ashbourne Road, Derby, DE22 3AW
Non-members welcome, light refreshments provided.
Meeting will be available online (Microsoft Teams)
Register to attend with Eventbrite at https://bit.ly/EMMSEvent
and to access Teams meeting
Or use the QR code >

FOR FURTHER DETAILS CONTACT: MARTIN TUFFS, EAST MIDLANDS MATERIALS SOCIETY
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