

Tribology 2025 – Materials Making the Difference

Tuesday, 3rd June 2025

Rolls-Royce Learning and Development Centre, Gate 5A, Wilmore Road, Derby, DE24 9BD

0930 – 1000	Registration	
1000 – 1005	Dr Neil Glover <i>Head of Materials Research, Rolls-Royce plc</i>	Introduction and Welcome
1005 – 1035	Prof Robert Wood <i>University of Southampton /Chair UK Tribology</i>	Keynote: “Tribology for Net Zero”
1035 – 1100	Lloyd Pallett <i>Rolls-Royce plc</i>	Talk: “Tribology and the Product Lifecycle in Aerospace”
1100 – 1125	Prof Phil Shipway <i>University of Nottingham</i>	Talk: “Wear and subsurface damage in fretting: the key role of debris formation and transport”
1125 – 1145	Break	
1145 – 1210	Dr-Ing Emanuel Tack, Tribology Expert <i>Oerlikon Surface Solutions AG</i>	Talk: “Winning the tribological contest using a Digital Twin for PVD coated applications - Surface Solution for Gears as an example”
1210 – 1235	Prof Honor Powrie, Head of Data Science <i>GE Aviation/University of Southampton</i>	Talk: “Digitalization in Tribology: Challenges and Opportunities”
1235 – 1355	Lunch (inc Heritage Centre)	
1355 – 1420	Dr Dave Stewart <i>Rolls-Royce plc</i>	Keynote: “Nuclear Plant Tribology – Materials, Mechanisms and Models”
1420 – 1445	Prof Suman Shrestha <i>Curtiss-Wright Surface Technologies</i>	Talk: “High Performance Tribological Coatings on light metals by Plasma Electrolytic Oxidation (PEO) for space missions”
1445 – 1510	Break	
1510 – 1535	Dr Mazen Al Hajjar <i>DePuy Orthopaedics</i>	Talk: “The science of biotribology in total joint replacement”
1535 – 1600	Prof Ian Taylor <i>UCLAN</i>	Talk: “Tribology in Transportation - a lubricant perspective”
1600 – 1700	Panel session	
1700	Close	