

09.00 **Registration, Networking & Exhibition/Posters** (*Waterside Room, Ground Floor*)

Plenary Session Location: Kingston Theatre, Ground Floor

09.30 **Welcome & Introduction**

Dr Martin Kemp, Theme Manager – Engineering Applications, NanoKTN

09.40 **Welcome Address**

Gordon Attenborough, Sector Head for Design and Production, The IET

09.50 **Keynote: Tribological Challenges in Engines and Technological Solutions**

Ian Taylor, Technology Manager - Lubrication Science, Shell Research Ltd

10.20 **Keynote 2**

tbc

10.50 **Break, Networking & Exhibition/Posters** (*Waterside Room, Ground Floor*)

11.30	Parallel Sessions		
	Session A1: Graphene <i>Chair: Martin Castell</i>	Session B1: Protective & Functional Surfaces <i>Chair: Mike Sheehan</i>	Session C1: Advances in Nano/Micro Manufacture <i>Chair: Paul Shore</i>
11.30	Decoration Doping and Functionalisation of Graphenes Ian Walters, Haydale	Applications for Nanomaterials in Industrial Gas Turbines Jon Wells, Principal Metallurgist, Siemens Industrial Turbomachinery Limited	Applying the Small to the Big: Mass Production Challenges for Emerging Products Prof Paul Shore, Cranfield University
11.55	Towards Large-Scale Production of Defect-Free Graphene Dr Keith Paton, Thomas Swan & Co. Ltd	Development of an Anti-Static Coating Incorporating Multi-Walled Carbon Nanotubes as an Alternative to Graphite Chris White, Nano Coating Research Engineer, Indestructible Paint Ltd	Microinjection Moulding for Micro-component Manufacture: Challenges and Opportunities Dr Ben Whiteside, Director, The Centre for Polymer Micro and Nano Technology, University of Bradford

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12.20	An Update on Graphene Scale-up and Manufacture Dr Chris Herron, Applications Scientist, Durham Graphene Science	PVD Coatings for Demanding Hydrogen Economy Applications Dr Kevin Cooke, R&D Technology Centre Manager, Miba Coating Group. Teer Coatings Ltd	Laser Micromachining Using Short and Ultra Short Wavelength Pulse Lasers Andrew Kearsley, Oxford Lasers
12.45	Title tbc Prof Nicole Grobert, Professor of Nanomaterials, Dept of Materials, University of Oxford	Anti-fouling Nanocomposite Coatings Prof Qi Zhao, Department of Mechanical Engineering, University of Dundee	Title tbc <i>tbc</i>

13.10-14.30 **Lunch, Networking & Exhibition/Posters (Waterside Room, Ground Floor)**

14.30	Parallel Sessions		
	Session A2: Nanocomposites <i>Chair: Jorice Samuel</i>	Session B2: Protective & Functional Surfaces <i>Chair: Keith Harrison</i>	Session C2: Novel Manufacturing Concepts <i>Chair: Dr Martin Kemp</i>
14.30	Nano-dielectric Developments for Future Power Sector Needs Prof Gary Stevens, Managing Director, GnoSys Global Ltd	Advanced Coatings for the 21st Century Dr Sohail Hajatdoost, Tata Steel	Metals 3D Printing- Expectation to Enlightenment Carl Brancher, Managing Director/Founder, Materials Solutions
14.55	Nanocellulose and Nanomaterials for Building Construction Prof Mizi Fan, Director, Nano-cellulose and Bio-composites Research Centre & Head of Research, Dept of Civil Engineering, Brunel University	Tribological Properties of Self-mated Graphit-ic Coatings under High Contact Pressures Prof Derek Arnell, Jost Institute of Tribotechnology, University of Central Lancashire	Clusterbeam: Gas-phase Nano-cluster Technology for High Performance Applications Dr Dmitriy Ievlev, Senior Researcher, Miba Coating Group. Teer Coatings Ltd

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15.20	Nanocomposites and Fillers for Polymers Dr Sandy Reid, Chief Executive Officer, Promethean Particles Ltd	Nano-Technology in Surface Engineering, a Practical Approach Dr Bryan Allcock, Managing Director, Monitor Coatings Limited	Title tbc Prof Ton Peijs, Director, Nanoforce Technology Ltd
15.45	Graphene-based Thermoplastic Masterbatches for Conventional and Additive Manufacturing Processes – The NanoMaster Project Dr Ben Hargreaves, Project Manager, NetComposites Ltd	Design of Self-adaptive Ultra-low Friction Coatings Dr Tomas Polcar, Lecturer in Coatings and Nanotribology, nCATS, University of Southampton	The Potential of Additive Layer Manufacture as a Manufacturing Route Dr Sara Flint, Commercial Manager, Centre for Additive Layer Manufacturing (CALM), University of Exeter

16.10 **Break, Networking & Exhibition/Posters** (Waterside Room, Ground Floor)

17.00 **Close**

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