

# SAMPE UKIC ANNUAL SEMINAR PROGRAMME



## ADVANCED MATERIALS & MANUFACTURING: FROM MICROSTRUCTURES TO MEGASTRUCTURES

09:00 Registration and Tour 1

09:25 SAMPE UKIC Welcome, Tim Wybrow, SAMPE UKIC

### **KEYNOTE**

09:30 Large Scale Aerospace Composite Structures, Stephen McBurney, Short Brothers, A Boeing Company

### **INDUSTRIAL MATERIALS AND TEXTILE INNOVATIONS**

10:00 Advanced Reinforcements for Large Scale Composite Structures, Remy Steenbakker, Sigmatex

10:25 Bringing Advanced Materials into Production Composite Components, TBC

10:50 Carbon Fibre Recycling, TBC

11:15 Break and Tour 2

### **SUSTAINABLE COMPOSITES AND MATERIALS SCIENCE**

11:45 TBC

12:10 The Characterisation of Prepreg Tack for Sustainable AFP, Dr Davide De Facatiis, University of Nottingham

12:35 Reducing the Environmental Impact of Using Ceramic Matrix Composites, Richard Grainger, HTMS

13:00 Lunch and AGM

13:55 SAMPE UKIC Welcome Back, Lee Harper, SAMPE UKIC

### **DIGITALISATION AND ADVANCED MANUFACTURING**

14:00 High-Rate Manufacturing, Digitalisation, and Industrial-Scale Composite Production, Rob Hewison, AMRC Compass Facility

14:25 Automated Fibre Formatting, Material Handling, TBC, NCC

14: 50 TBC

15:15 Break and Tour 3

### **DESIGNING FOR STRUCTURAL INTEGRITY**

15:45 TBC

16:10 Arrest of Unstable Compressive Cracks, Bruno Santos, Imperial College London

16:35 Z-pinning for eVTOL Battery Cases, Dhairyra Parikh, University of Bristol

17:00 Closing Remarks and Tour 4

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