

SAMPE UKIC ANNUAL SEMINAR PROGRAMME

ADVANCED MATERIALS & MANUFACTURING: FROM MICROSTRUCTURES TO MEGASTRUCTURES

08:30 Registration

09:00 SAMPE UKIC Welcome, Tim Wybrow, SAMPE UKIC

KEYNOTE

09:05 Large Scale Aerospace Composite Structures
Stephen McBurney, Short Brothers, A Boeing Company

MATERIALS AND STRUCTURAL PERFORMANCE

09:35 Optimisation of Thermoplastic Composites Manufacturing
Remy Steenbakker, Sigmatech

09:55 Arrest of Unstable Compressive Cracks in Carbon-Fibre Reinforced Polymers using Local Ply-Discontinuity
Bruno Santos, Imperial College London

10:15 Automated Fibre Formatting, Material Handling, and Next Generation Textile Processing
Kyle Pender, NCC

10:35 Break and Tour 1

INDUSTRIALISATION OF MANUFACTURING SOLUTIONS

11:15 High-Rate Manufacturing, Digitalisation, and Industrial-Scale Composite Production
Rob Hewison, AMRC Compass Facility

11:35 Innovative Tooling Systems for the Industrialisation of Composite Component Manufacturing
David Kampenhuber, ALPEX Technologies

11:55 Toray Automotive Centre Case Studies of Novel Processing Technologies with Industrial Partners
Alan Riley, Toray International UK

12:15 Project DELTA: Digitally Enabled Low Cost Technology for Aerostructures
Emma Clarke, Andrew Orr, Stuart Dunlop, Erin Callaghan, Boeing

12:35 Lunch, AGM and Tour 2

ADVANCED MATERIAL SOLUTIONS FOR A SUSTAINABLE FUTURE

13:55 Reducing the Environmental Impact of Aerospace using Ceramic Matrix Composites
Richard Grainger, HTMS

14:15 Thermoplastic Composite Pipes (TCP) for Hydrogen Distribution: Design, Qualification, and Performance
Peter Hansen, Hive Composites

14:35 Enhancing EV/eVTOL Battery Cooling with Z-Pinned GFRP
Dhairya Parikh, University of Bristol

14:55 Break and Tour 3

INNOVATIVE MATERIALS CHARACTERISATION

15:35 3D Crystallinity Mapping in Thermoplastic Composites Using XRD
Peter Froberg, ThiaX

15:55 Characterisation of prepreg tack for sustainable AFP
Davide De Focatiis, University of Nottingham

16:15 Automated Quality Control for Composites Surface Preparation for Bonding and Painting
Oisín Gavigan, Plasma Bound

16:35 Closing Remarks and Benefits of Membership, Lee Harper, SAMPEUKIC

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