

Hub Open Day Programme – 13 September 2022

The AMRC Knowledge Transfer Centre
Advanced Manufacturing Research Centre
Brunel Way, Catcliffe, S60 5WG (Satnav S60 5TZ)

0900 **Registration**

Session 1: Chair Prof Nick Warrior, Hub Director

0920 **Welcome and Introduction**
Prof Nick Warrior, University of Nottingham

0930 **Keynote lecture:** Dr Stu Morris, Pentaxia

1010 **Coffee break and Poster Session**

Session 2: Sustainability; Chair Prof Ole Thomsen, Hub Deputy Director

1030 **REWIND: Rewinding Tape Laying**
Dr Davide de Focatiis, University of Nottingham

1050 **ADDRESS: Advanced Dynamic Repair Solutions for Sustainable Composites**
Dr Dmitry Ivanov, University of Bristol

1110 **Furthering the Uptake of Carbon Fibre Recyclates by Converting into Robust Intermediary Materials Suitable for Automated Manufacturing**
Dr Thomas Turner, University of Nottingham

1130 **Manufacturing Value-Added Composites for the Construction Sector using Mixed Waste Plastics and Waste Glass Fibres**
Dr Dipa Roy, University of Edinburgh

1150 **Tour: Composites Factory of the Future**

1230 **Lunch**

1300 **SAMPE YES Design and Make Competition**

1330 **Industry Presentation:** Joshua Sherwood, GKN Aerospace

Session 3: Enabling Technologies; Chair Dr Lee Harper, Hub Manager

1410 **Layer by Layer**
Dr James Kratz, University of Bristol; Dr Alex Skordos, Cranfield University

1430 **ADDCUR: Additively Manufactured Cure Tooling**
Dr James Kratz, University of Bristol; Dr Vimal Dhokia, University of Bath

1450 **Numerical Simulation of Compression Moulding of SMC and Prepreg**
Dr Connie Qian, University of Warwick

1510 **Coffee Break and Poster Session**

1530 **Technology Pull Through Programme**
Dr Matt Scott, National Composites Centre

Session 4: Out of Autoclave Processing; Chair Dr Thomas Turner, Hub Deputy Director

1550 **Design Simulation Tools and Process Improvements for NCF Preforming**
Dr Lee Harper, University of Nottingham

1610 **Permeability Variability of Non-Crimp Fabrics for Liquid Moulding**
Dr Yang Chen, University of Bath

1630 **Resin Injection into Reinforcement with Uncertain Heterogeneous Properties (Active RTM)**
Dr Andreas Endruweit, University of Nottingham; Dr Mikhail Matveev, University of Nottingham

1650 **Closing Remarks**
Prof Nick Warrior

1700 **Meeting Close**

1900 **Dinner** – All delegates are invited to a dinner at the Crowne Plaza Royal Victoria, Sheffield.
Please confirm attendance when you register for the Open Day.