

**Thursday 5<sup>th</sup> September 2024**

Bar 3 @ the International Composites Summit, Marshall Arena, Milton Keynes

**FPCC 2024 CHAIR:** Prof. Chao Wu, Imperial College London

### **AGENDA**

9.00 – 9.30am – Registration and coffee

9:30am Introduction from FPCC 2024 chair, Prof. Chao Wu, Imperial College London

9.45am **Keynote: Andy Cross, Network Rail** - Opportunities for decarbonising rail infrastructure with composites

#### **SESSION 1: 10.15 – 11:35**

##### **Codes and Standards**

- ***J Toby Mottram, The University of Warwick*** – Status and Future for the Structural Eurocode project Design of Fibre-Polymer Composite Structures
- ***Kent A. Harries, University of Pittsburgh*** – Current State of Play in Composites Standardisation in the United States

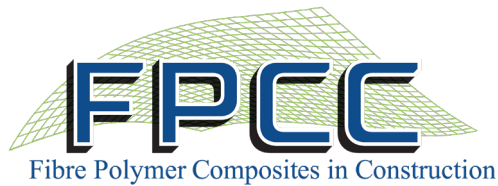
##### **All-FRP Structures**

- ***Nigel Finney, Hive Composites Ltd*** – Composite Poles in Infrastructure – Road, Rail & Electricity distribution

##### **Design**

- ***Caroline Durnwalder, Wolfgang Fiel, Philipp Preinstorfer, TU Wien, and University of Vienna, Austria*** – Optimising FRP Reinforcement Layout by Using Embroidery Technology

#### **BREAK: 11:35 – 11:55**



## SESSION 2: 11:55 – 12:55

### Durability

- *Asaad Biqai, Eleni Toumpanaki, Manjola Caro, Ian Hamerton, University of Bristol* – Durability Assessment of GFRP Bars in Marine Environments
- *Kaloyana Kostova, Callum Branfoot, Rebecca Clark – NCC | Antony Darby, Mark Evernden, Xinyuan Ke – University of Bath* – Appropriate Testing Approach for Durability of FRP rebar in AACM concrete
- *Xiangdong Geng, Chao Wu, Imperial College London* – A New Database about the Durability of FRP Rebar for the Future Development of Machine Learning Modelling

## LUNCH: 12:55 – 14:30

## AFTERNOON SESSION: 14:30 – 16:00

### Life Cycle and Sustainability

- *Meiran Abdo, Eleni Toumpanaki, Andrea Diambra, University of Bristol* – Recycling of FRP Wind Blade Waste Material in Concrete

### New Materials and Processes

- *Ruizhe Zhang, Junyi Wang, Siqi Liu, Guoqing Jing, Beijing Jiaotong University, China* – Research on Mechanical Performance of Novel Bamboo-Plywood Composite Railway Sleeper
- *Guozhen Ding, Chao Wu, Imperial College London* – Understanding Polymer Behaviours in High-Pressure Hydrogen Environments: Insights from Molecular Dynamics Simulation
- *Praveen Karebaser, Open University* – Quantification of Mesoscale Residual Stress in Crossply Laminar Polymer Composites using Contour Method

15:50 Final remarks & close

**CLOSE: 16:00**