

# Workshop

## End of Life Options for FRP Composites

9<sup>th</sup> December 2010, NetComposites Office, Chesterfield, UK

### Aim of the Workshop

Fibre reinforced polymers (FRPs) are increasingly being used across many sectors due to their light weight, ease of installation, low maintenance and tailor made properties. The UK FRP industry produces around 160,000 tonnes of waste per annum, with about 70% of this coming from end-of-life and 30% post-production. At present the most common disposal method for UK FRP waste is landfill. Current and impending waste management legislation will put more pressure on the industry to address the options available for dealing with FRP waste. Such waste legislation focuses on dealing with waste through the waste hierarchy and will therefore put more pressure on solving FRP waste management through recycling and reuse.



This workshop will enable delegates to learn about waste disposal options for FRP waste. Current UK recycling programmes and facilities will be presented along with plans for the future. Any gaps in technology or knowledge will be identified and ways to address these discussed.

### Programme

10:00 Registration

10:30 **Composite Recycling: A Summary of Recent Research and Development**  
Stella Job, Materials KTN

11:00 **Hambleside Danelaw: A Case Study**  
Ray Khan, Hambleside Danelaw

11:30 **A Mechanical Study of Glass Fibres Recovered from Solvolysis Process**  
Dr. Chih-chuan Kao, University of Exeter

12:00 Lunch

13:00 **Quality Control Techniques for Recycled Carbon Fibre**  
Guozhan Jiang, University of Nottingham

13:30 **Tailoring Carbon Fibre Recycled Composites to Optimise Mechanical Performance**  
Soraia Pimenta, Imperial College London

14:00 **The Potential of Recycled Carbon Fibres and Composites for Structural Applications**  
Silvestre Pinho, Imperial College London

14:30 Break

15:00 **Use of Recycled Carbon Fibre in Heating Elements**  
Edwin Pang, University of Nottingham

15:30 **Fibrecycle Project**  
Dr Sophie Cozien-Cazuc, Advanced Composites Group

15:50 Discussion

16:00 Optional Tour of NetComposites

16:30 Tour Ends

### Registrations

To register please complete and return the following form.



**Delegate Registration Form**

<b>Name:</b>	<b>Job Position:</b>
<b>Company:</b>	
<b>Address:</b>	
<b>Postcode:</b>	<b>Country:</b>
<b>Telephone:</b>	<b>Email:</b>
<b>Special Requirements (dietary, access etc):</b>	

<b>Payment:</b>						
All courses cost £110.00 (£129.25 inc. VAT).						
I wish to pay by:						
<input type="checkbox"/> <b>Cheque (Made payable to NetComposites Limited, UK only)</b> <input type="checkbox"/> <b>Invoice – our purchase order reference: _____</b> <input type="checkbox"/> <b>Credit Card (Please complete below)</b>						
Type of card (Please tick):						
<input type="checkbox"/> Visa <input type="checkbox"/> Mastercard <input type="checkbox"/> American Express <input type="checkbox"/> Delta <input type="checkbox"/> Maestro <input type="checkbox"/> Solo <input type="checkbox"/> Eurocard						
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<small>Last 3 digits on reverse of card 4 digits on Amex on front of card</small>						

**Returning Completed Forms.** You can return your completed form by:

**Fax:** +44 (0)1246 266249

**Email:** [claire.whysall@netcomposites.com](mailto:claire.whysall@netcomposites.com)

**Post:** NetComposites, 4A Broom Business Park, Bridge Way, Chesterfield, S41 9QG

For help or more information please call Claire Whysall on +44 (0)1246 266244 or email [claire.whysall@netcomposites.com](mailto:claire.whysall@netcomposites.com)