



# Update

## June 2008

Welcome to the eighth newsletter from the **Centre for Remanufacturing & Reuse**, established with Defra support by Oakdene Hollins Ltd to promote remanufacturing and other reuse options.

Through this newsletter we hope to reach all those who are interested in keeping abreast of current developments in remanufacturing by providing them with up-to-the-minute news and information on remanufacturing worldwide.

Read our **CENTRE NEWS** for the latest progress in the promotion of remanufacturing and other reuse options. Keep up to date by reading our **INDUSTRY NEWS**.

**GET INVOLVED** with remanufacturing by reading about the opportunities to participate in projects currently being carried out at the Centre.

Further information on the items below, many other current reports and news items, and back issues of the newsletter can also be found on our [website](#).

You can contact the **Centre for Remanufacturing & Reuse** directly by either using the remanufacturing hotline **01296 337165** or e-mailing [info@remanufacturing.org.uk](mailto:info@remanufacturing.org.uk).

### **End of Year Report**

For anybody who missed the annual report from the CRR in April, there is a copy available to download on our [website](#).

### **Surface Technologies for Remanufacturing Engineering Components**

The CRR organised a very successful one-day seminar on 7 March 2008 in conjunction with the Department of Materials and Metallurgy at the University of Birmingham. The seminar showcased leading industrial practice and the latest techniques and concepts from industry and academia concerned with surface technologies for the remanufacture of engineering components. Copies of the talks are available on our [website](#) for members to download.

### **Corporate wear**

The CRR hosted a pre-project workshop, attended by 25 representatives from the corporate wear sector, in Nottingham last month. This was an opportunity for leaders from across the corporate wear supply chain to discuss, deliberate and define a plan of action. Project leaders are currently finalising individual work plans ahead of the official project launch date on the 1st June.

The project will address issues in three key areas: garment design and construction, use of alternative fibres, and end of life management. In addition, a new project was created as a result of feedback from the workshop which will look at the issue of taxation in corporate wear.

For more information on the Corporate wear Project please [contact us](#).

### **Remanufacturing workshops**

The CRR recently hosted a workshop at IDEA 2008 in Leamington Spa. Fiona Kelday, Dr Andrew King (University of Bristol) and Casper Gray (Wax RDC) delivered a short introduction to remanufacturing, including an overview of business models and a case study of the Wax RDC feasibility project, funded by the CRR in 2007. This was followed by a 15 minute interactive session which saw audience members split into 3 groups to discuss whole systems design, core collection and technologies to aid remanufacturing. This prompted some interesting debates and proved to be a useful way to create awareness of the benefits and opportunities in remanufacturing to a new audience.

If you would like the CRR to host a workshop on remanufacturing at your event please [contact us](#).

### **Report on public attitudes, perceptions and behaviour relating to remanufactured, repaired and reused products**

Consumer perceptions of remanufactured, repaired and reused products are often viewed as a barrier to increased uptake of these goods. Although there have been a number of studies undertaken in this area, a critical overview of research on this subject was much needed. The CRR commissioned a study by Dr Matt Watson of the University of Sheffield and the resulting report can now be downloaded from our [website](#).

### **Wax RDC completes feasibility study on business models and product design for remanufacture**

Last year the CRR supported five projects chosen from the large number entered into the competition for funding Feasibility Studies in Remanufacturing and Reuse. One of those chosen has now been completed and details of the outcome, including the full report, can be obtained from our [website](#).

### **CRR touts remanufacture in materials challenge**

By invitation, CRR presented at the recent IoM3 Materials Congress in Grantham. Being the premium materials event, CRR put across the perspectives of remanufacturing. The ability to influence materials security is a prime benefit, keeping hold of rare and valuable feedstocks. CRR also laid down five challenges for the materials community in areas as diverse as measurement, design and remediation.

**Brochure on remanufacture and reuse of office equipment**

This resource has been produced to assist those looking to purchase goods from the office equipment sector by providing specifications for particular product categories and details of companies offering remanufactured or reused products and services. It is now available to download from our [website](#).

**Retread Tyre Trial**

Tyres are energy and raw material intensive items to produce and in the region of 50 million of them are sold in the UK each year. A recent study carried out by the CRR has shown that retreading is the most environmentally friendly way of dealing with them at their end of life. However, despite the fact that regulations have been introduced to ensure that they are tested to the same standard as new product, it is thought that the uptake of retread tyres is being stifled by existing misconceptions regarding their relative quality.

In order to address this we are in the process of organising trials and are interested in hearing from anybody who is managing a fleet of Light Commercial Vehicles and would like to compare the performance of retread and new tyres under controlled circumstances. For additional information, please [contact us](#).

**Test and Inspection Techniques for Remanufacturing Seminar**

Given that the service history of a product is often an unknown quantity during its first life, the effectiveness of inspection techniques at the point of remanufacture is all the more critical for ensuring its integrity prior to re-application.

For this reason, the CRR is organising a FREE, one day technical seminar designed to showcase various inspection techniques and to demonstrate how they can be applied to remanufacturing activity.

The event will take place at a central academic or industrial location and will include presentations from academia, remanufacturing practitioners and providers of inspection equipment and services.

If you are interested in attending as either a delegate or presenter please [contact us](#).

**Automotive remanufacturing standards**

To help buyers of automotive components distinguish top rated remanufactured components, we are developing a standard for automotive components. With help from BSI, we are looking to develop a PAS standard on one or several automotive components where there is a significant UK base. We are also looking to recruit purchasers of remanufacturing equipment such as large garage networks and OEM approved dealers to help pull the standard through to the mainstream. If you are interested in being involved, please [contact us](#).

**Education**

We are continuing our work developing a remanufacturing module for Universities in the UK. This will be accompanied by a resource pack for course leaders who want to include content on remanufacturing in their modules. This will be available as a stand alone resource or with additional support from the CRR if required. To date, we have delivered the module, tailored for each course, to Whole Systems Design, Advanced Technology Management, Product Design and Mechanical Design Engineering students.

If you are interested in including remanufacturing in your University course please [contact us](#).

### **Purchasing**

We will be continuing our work with public and private sector purchasers this year. The CRR will have a stand at [Action Sustainability](#)'s 'Meet the Buyers' events this year, and we will also be exhibiting at [London Remade](#)'s 'Green and Thrifty' event in London on 18<sup>th</sup> June. Come and visit us at these events and find out more about our work this year.

The CRR provides support to purchasers in two key areas; Buying and Disposal.

**Buying:** Reduce your environmental impact and improve business profitability by bringing remanufactured goods into your sustainable purchasing decisions, without compromising on quality and performance.

**Disposal:** Reduce the amount of waste you send to landfill and become part of the reuse movement by finding a cost-effective and sustainable disposal route for your end-of-life goods.

For more information please [contact us](#).

### **Remanufacturing reduces carbon dioxide emissions**

The Centre for Remanufacturing and Reuse has recently published reports on carbon footprints for remanufacturing tyres and printer cartridges. The results of the study show that remanufacturing has a significant positive environmental affect.

The individual studies can be found [here](#) for printer cartridges and [here](#) for tyres.

As part of this process, we would welcome comments and suggestions for increasing the accuracy of the data, please [contact us](#) and we will be delighted to debate the findings.

**USA - Avon Company brings old petrol pumps up to date**

PMP Corp. in Avon, US remanufactures gasoline station equipment and is busy reconfiguring mechanical pumps that can't register prices above \$3.99 a gallon or total sales of more than \$99.99. The company is one a handful of companies nationwide that remanufacture old-style mechanical pumps so they can display the current, skyrocketing fuel prices. [Read more:](#)

**Product and process assessment for remanufacturing of computer controlled automotive components**

Rolf Steinhilper, Bernd Rosemann, Stefan Freiberger Bayreuth University, Chair of Manufacturing and Remanufacturing Technology, Germany have written a paper presented at a conference in 2006. [Read more:](#)

**USA - Xerox Commits US\$2 Million to RIT Targeting Education and Research in Sustainability**

Xerox Corporation building on four decades of leadership in advancing environmentally sustainable practices, is committing US\$2 million to Rochester Institute of Technology to serve as a founding partner of The Golisano Institute for Sustainability. [Read more:](#)

**USA - (re) manufacturing green jobs**

Representative Phil English wants to create the manufacturing economy of the future in North Western Pennsylvania. [Read more:](#)

**Irish server remanufacturer Multis expands in Union City**

Galway, Ireland's, Multis Group Ltd. has invested about \$2 million to expand its computer remanufacturing operation into Union City, in part to be closer to its top U.S. customers - Santa Clara's Sun Microsystems Inc. and Palo Alto's Hewlett-Packard Co. [Read more:](#)

**Auto manufacturers 'can help lower emission levels'**

Engine manufacturers have claimed that they can play an important role in the reduction of global transport emission levels. Federation of Engine Re-manufacturers secretary Brian Ludford said that with government support, there is scope to expand the market for re-manufactured engine products and increase quality standards, which could help lead to a cut in carbon emissions. [Read more:](#)

**Uptake of Remanufactured Parts in the North American Automotive Industry Driven by Lower Prices**

The large array of new, salvage and rebuilt parts has eroded the market for remanufactured engines, transmissions, clutches, CV drive axles and fuel injectors. Remanufacturers of these products cannot recover their high production costs.

[Read more:](#)

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