

# NEWSLETTER

**LPD Lab Services**

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**One-Stop Shop for Industrial Process Problem Solving, Consulting and Routine Analysis**

Welcome to the Autumn 2010 edition of the LPD Lab Services Ltd newsletter which sees us celebrating a first successful year since the management buy out in 2009. We would like to thank all our customers for their support as we have continued to improve the high quality service for chemical and materials analysis, technical problem solving and consultancy to a wide range of industries.

The growth in our business has prompted us recently to invest in new analytical equipment and recruit a new member of staff. This has allowed us to grow our technical expertise and to improve our capabilities so that we can respond to the demand for our product and process focussed services.

## Recruitment of Technical Development Manager

Dr Wyndham Johnstone joined the business full time at the end of August 2010 after acting as a technical consultant for LPD Lab Services. He has over 15 years of industrial experience of developing new products and providing technical support to international customers. He will be the Technical Development Manager and in this role he will:-



- ◆ Grow technical project management activities on larger projects.
- ◆ Provide Research and Development support to help customers design out problems before they happen, extending our industrial problem solving and reverse engineering services.
- ◆ Utilise his 6-sigma Black Belt and associated techniques on problem solving enhancing the green and yellow belts capabilities already in the company.

He also has unique experience in thermionic emission, electron optics and modelling. This combined with the laboratory's experience formerly as part of Philips allows LPD Lab Services to offer a unique consultancy role in the development, application and use of thermionic cathodes.

## Enhanced FTIR Organic Identification Capabilities

LPD Lab Services, with support from the Blackburn Enterprise Trust, has just bought a new Jasco FTIR-4100 Fourier Transform Infra-red instrument to improve our organic and polymer identification capabilities.

Equipped with a Diamond ATR attachment, this extends our small feature / contaminant investigation capabilities. It will enhance our identification organic components and coupled with our SEM/EDX help solve a wide range of particle contaminant problems.



In addition, the purchase of additional electronic spectral databases allows the identification of components in multi-component mixtures. This will also assist our experts in de formulation and reverse engineering activities.

## Product Lifetime, Shelf Life Improvement and Operational Testing

The cost of releasing an unreliable product on the market can be huge. Product recalls, costly product redesign, damage to brand image and in extreme cases legal action can result. It is vital that reliability should be considered early in the design and development of any product or process where the cost of any design changes is much less.

Validating the reliability performance of a product can also be time consuming and incur considerable expenditure. Poorly executed projects can consume large amounts of time and money and yet yield no real useful information.

LPD Lab Services have many years of experience of reliability engineering and can support reliability validation program at all stages:

- ◆ Consultancy services to assist in initial design phase to help plan a reliability program.
- ◆ Competitor analysis and reverse engineering or de formulation.
- ◆ Analysis of field / in service products to understand causes of failures or degradation mechanisms.
- ◆ 6 Sigma statistical analysis of reliability data and modelling that enables reduced testing times.
- ◆ FMEA to identify risks and generate practical contingency actions.
- ◆ Bespoke product testing service combining the controlled simulation of chemical and environmental factors under normal or highly accelerated life testing conditions.
- ◆ Chemical, materials and physical characterisation before and after the testing to on key parameters.
- ◆ Devise and implement strategies for product and process development.

Thanks for reading and kind regards

Steve Jenkins (Managing Director)

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## Website Update

For more information on any of the subjects mentioned in this newsletter, please visit our website or feel free to call us on:

**TEL: +44 (0)1254 676 074**  
**WEB: [www.lpdlabservices.co.uk](http://www.lpdlabservices.co.uk)**