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# On-Line and At-Line Analytical Technologies in the Industrial Biotechnology Sector

Thursday 14 November 2013

Institute of Practitioners in Advertising, London, UK

Organised by SCI's Separation Science & Technology Group

  
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where science meets business

**09:30** Registration and refreshments

**10:00** Welcome and introduction  
Dr George Okafo, GSK, Stevenage, UK

**10:05** **QbD approaches in the biopharm sector**  
Dr Richard Francis, Francis Biopharma, Sevenoaks, UK

**Session Chair – Dr. George Okafo, GSK, Stevenage, UK**

**10:30** **Monitoring protein “soft” structure during process and formulation**  
Prof Jeremy Lakey, Newcastle University, Newcastle, UK

**10:55** **LC-MS from bench to bedside**  
Prof William Griffiths, University of Swansea, Swansea, UK

**11:20** **Use of Raman spectroscopy for monitoring cell culture**  
Dr Roy Goodacre, University of Manchester, Manchester, UK

**11:45** **PAT tools in dairy processing**  
Dr Colette Fagan, University of Reading, Reading, UK

**12:10** **htCD/FT IR for protein conformation**  
Prof Tim Dafforn, Birmingham University, Birmingham, UK

**12:35** Lunch

**Session Chair – Dr Craig Duckham, CD Consultancy Services, Leatherhead, UK**

**13:30** **Rapid protein quantitation and kinetic measurements using Bio-layer Interferometry (BLI) technology**  
Dr Theresa Harper, Pall Corporation, Menlo Park, USA

**13:55** **High throughput protein analysis and characterisation for stability studies**  
Dr Daniel Lund, Avacta Analytical Ltd, Wetherby, UK

**14:20** **Real time PCR as a tool for rapid detection of microbial contamination**  
Dr Sylvie Hallier Soulier, Pall France, Bruz, France

**14:45** **Host cell protein detection and characterisation**  
Prof Mark Smales, University of Kent, London, UK

**15:10** Refreshments

**Session Chair – Dr Danish Malik, Loughborough University, Loughborough, UK**

**15:30** **Microfluidic systems as analytical tools in industrial biotechnology**  
Prof John de Mello, Imperial College London, UK

**15:55** **Opportunities for sensors and biosensors in analytical applications**  
Prof Peter Smith, University of Southampton, Southampton, UK

**16:20** **CE as an analytical tool in industrial biotechnology**  
Prof David Goodall, Paraytec Ltd, York, UK

**16:45** Closing remarks

## Synopsis

In the fields of Industrial Biotechnology ranging from Pharmaceuticals, Biotechnology, Food and Beverage, Agrochemicals etc. there is an ever expanding requirement for analysis of products and contaminants.

With process intensification and stricter regulatory requirements so the need for more accurate and precise analytical techniques has arisen especially for real time monitoring either on-line or at-line. Furthermore the ability to simplify the assay methodology to enable their application by a wide operator base has driven recent developments in the field.

The purpose of this meeting is to provide an update into new analytical technologies and to report new areas of application of established and novel technologies in the Industrial Biotechnology process sector. The international group of speakers includes experts in analytical technologies from academia and the analytical industry.

## Attendees

The conference should benefit both expert and novice analysts and bioprocess developers alike who are keen to consider all options available in on-line or at-line analytics.

## Organisers

Dr Peter Levison, Pall Life Sciences, Portsmouth, Hampshire, UK

Dr George Okafo, GlaxoSmithKline, Ware, Hertfordshire, UK

Dr Craig Duckham, CD R&D Consultancy Services, Leatherhead, UK

Dr Danish Malik, Loughborough University, Loughborough, UK

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