



THE JOINT PHARMACEUTICAL ANALYSIS GROUP

<www.jpag.org>

Chemometrics and multivariate statistics in pharmaceutical development

**A one-day symposium in partnership with
the Royal Society of Chemistry Chemometrics Group**

at the Royal Pharmaceutical Society of Great Britain

Thursday 22 April 2010

Scope

Chemometrics and multivariate statistics are becoming essential tools within pharmaceutical development as we seek to gain a deeper understanding and control of our processes to meet regulatory demand and deliver our products more efficiently and faster to the market.

This symposium will introduce some of the basic statistical and chemometric principles and will explore how they are being employed within the pharmaceutical industry. Applications will include multivariate analysis, design of experiment and real time release including process trouble shooting and monitoring.

Who should attend

This symposium will be of interest to analytical and pharmaceutical scientists involved in manufacturing optimisation, process design, analytical method development and data interpretation through multivariate methods.

It will also be of interest to those wishing to gain a deeper understanding of how statistics and chemometrics can aid efficient pharmaceutical development and manufacture and provide tools to better understand product design space.

A customised certificate attesting four hours credit for Continuing Professional Development will be included in the delegate pack for all registrants

Programme

- 09.30** **Registration and coffee**
- Session 1: Chairman: Ken Leiper**
Joint Pharmaceutical Analysis Group
- 10.00** **Introductions**
Ken Leiper and Vicki Woodward, Chair RSC Chemometrics sub-group
- 10.10** **An introduction to multivariate analysis in pharmaceutical development**
Dr Tony Walmsley, *Department of Chemistry, Hull University*
- 10.50** **The use of optimisation, confirmatory and robustness studies in analytical R&D**
Patrick Jackson, *GlaxoSmithKline*
- 11.30** **Using multivariate data analysis for process troubleshooting; how to interrogate and interpret process signals – a case study**
Dr Theodora Kourti, *GlaxoSmithKline*
- 12.10** **Lunch and Exhibition**
- Session 2: Chairman: Vicki Woodward, *RSC Chemometrics sub group***
- 13.40** **Improving method capability of a drug-substance HPLC assay.**
Dr Bieke Dejaegher, *Department Analytical Chemistry and Pharmaceutical Technology (FABI), Vrije Universiteit Brussel*
- 14.20** **The application of multivariate analysis to salt and polymorph screening data**
Dr Olof Svensson, *AstraZeneca R&D, Molndal, Sweden*
- 15.00** **Tea break**
- 15.20** **New approaches to multivariate statistical process control in the pharmaceutical industry using one class classifiers**
Professor Richard Brereton, *Chemometrics Centre, Bristol University*
- 16.00** **FTIR and Raman multivariate spectroscopic imaging: an overview and case applications in transdermal drug delivery studies.**
Dr John Tetteh, *Analytical Informatics and Chemometrics, Greenwich University*
- 16.40** **Closing remarks**
- 16.45** **Close**

Joint Pharmaceutical Analysis Group
“Chemometrics and predictive tools in pharmaceutical development”, Thursday 22 April

Registration form

Please send completed registration forms (one per person; fax or photocopies are accepted) to the Secretariat: Ms Julie Churchill, 3rd floor, Royal Pharmaceutical Society of Great Britain, 1 Lambeth High Street, London SE1 7JN

Delegate fees (*include registration, documentation, lunch and refreshments*). Please tick the appropriate box:

JPAG members	£149	<input type="checkbox"/>
Other members of RSC or RPSGB ** or APSGB	£199	<input type="checkbox"/>
<i>Bona fide</i> students, retired or unemployed members of RSC or RPSGB	£34	<input type="checkbox"/>
Not members of JPAG, or RSC or RPSGB	£249	<input type="checkbox"/>

[****Details** on how members of RPSGB and RSC can join JPAG are on the JPAG website.]

I enclose payment of £..... [Please note that there is no charge for VAT]

Details of delegate:

SURNAME: _____ (*BLOCK CAPITALS PLEASE*)

TITLE (Miss/Mrs/Mr/Dr/Professor) _____ FORENAME _____

ORGANISATION _____

ADDRESS _____

_____ POSTCODE _____

TEL: _____ FAX _____ e-mail _____

Payment of delegate fee: Please indicate method of payment:

Credit card: secure payment may be made on-line at: www.rpsgb.org/events

Cheque in GB pounds sterling payable to “**The Joint Pharmaceutical Analysis Group**”

Bank Transfer: use Sort Code: 30-99-93. Account Number: 00779842 at Lloyds TSB Bank, 41-43 South Street, Worthing, West Sussex, BN11 3AU **Quote reference: 0410**

Delegate fees are payable upon registration and are not refundable. E-mail confirmation of registration will be sent within 5 working days – please notify if you do not receive confirmation from the Secretariat. Notified substitution is allowed at any time

Enquiries should be addressed to the Secretariat: Ms Julie Churchill. Tel 020 7572 2640; Fax: 020 7572 2506; E-mail: <events@rpsgb.org>

Information on the programme, submission of abstracts for Poster presentation, location of the venue and local hotels and JPAG membership is available on the JPAG website at: www.jpag.org

Keeping you informed: The contact details you have provided may be used to inform you about future JPAG, RPSGB and RSC events, products and services. If you do not wish to receive such information by any of the methods listed below please indicate by ticking the corresponding box:

Mail Email Telephone

JPAG symposium and conference programmes 2010

Thursday 22 April 2010

**Chemometrics and predictive tools in
pharmaceutical development**

In partnership with the Chemometrics Group of the Royal Society of Chemistry
Royal Pharmaceutical Society, London

Thursday 10 June 2010

**Critical issues in the stability of products:
focus on the industry-hospital interface**

Royal Pharmaceutical Society, London

Wednesday 1 September 2010

APS PharmSci Conference 2010

Analysis of drug inclusion products and
short papers in pharmaceutical analysis

East Midlands Conference Centre, University of Nottingham, 1 – 3 September
For details of the programme see: <http://www.apsgb.co.uk/Events/Default.asp>

Thursday 14 October 2010

**Analytical challenges in the quantification
and validation of pharmacodynamic bio-
markers**

Royal Pharmaceutical Society, London

Thursday 2 December 2010

**Characterisation of active product ingredi-
ents**

Royal Pharmaceutical Society, London

For current information see the JPAG website: <www.jpag.org>

For some events, block bookings for students (to include documentation but not lunch) can be made by Academic supervisors; please ask for details from the Secretariat.