

Introduction to LC-MS for Pharma Industry 19 September 2011

Window Conference Venue, London

Overview

This one-day course provides an introduction to technology and (potential) application areas of combined liquid chromatography-mass spectrometry (LC-MS) in small-molecule pharmaceutical industry. The morning sessions provide a clear technology overview, introducing analyte ionization techniques, different types of mass analysers, and important data acquisition strategies.

The two afternoon sessions focus on applications in quantitative and qualitative analysis, respectively.

Course Programme

Course will commence with registration and coffee at 8.30, course proper starts at 9.00 and will finish at 5.00

- 09:00 Introduction. Identifying the pharmaceutical application areas for LC-MS. Principles of LC-MS and LC-MS-MS. Data acquisition strategies in LC-MS.
- 10:30 Coffee break
- 10:45 Solutions by LC-MS: Instrumentation overview. Electrospray and APCI. Flow-rate and mobile-phase composition. Different types of mass analysers: how and when about single quadrupole, triple quadrupole, ion-trap, and time-of-flight instruments.
- 12:30 Lunch
- 13:30 Potential and limitations of LC-MS in quantitative (bio)analysis. General workflow in quantitative analysis. Selected reaction monitoring. Analytical strategies involved in bioavailability, PK/PD studies, metabolic stability, genotoxic impurities. Validation issues.
- 15:15 Coffee break
- 15:30 LC-MS in qualitative applications. Fragmentation in MS-MS as a tool for structure elucidation, Multistage MSⁿ and accurate-mass determination. Software tools. Applications in checking compound identity, impurity profiling, and metabolite identification.
- 17:00 End of the course

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Course Speakers:

Wilfried Niessen has almost 30 years of experience as a researcher and project manager in the field of analytical mass spectrometry, and especially liquid chromatography – mass spectrometry. Since 1996, he works as an independent consultant, providing expert consultancy and (advanced) courses in analytical mass spectrometry. In 2002, he was appointed (part-time) extraordinary professor in bioanalytical mass spectrometry at the Faculty of Science of the VU University in Amsterdam, where he is currently interim Head of the Division BioMolecular Analysis.

He has been involved in many different consultancy projects within industry, governmental institutes and other laboratories in the Netherlands, Belgium, Italy, Germany, Denmark, Sweden, United Kingdom, Switzerland, Slovenia, Israel, Hong Kong China, India, and Canada.

In addition, in the past 14 years he provided more than 320 courses with in total more than 3400 participants. He is (co)author of more than 160 refereed papers in the field of LC-MS. The third edition of his book Liquid Chromatography – Mass Spectrometry was published in October 2006. He co-edited several special volumes of Journal of Chromatography A (794, 970, 974, 1058, 1067, and 1159) on "Mass Spectrometry: Innovation and Application". He is the editor of Volume 8: Hyphenated Methods of the Encyclopaedia of Mass Spectrometry, published in 2006 by Elsevier.

William van Dongen holds a PhD (1996) in peptide and protein mass spectrometry. Since then, he worked as an industrial researcher, project manager and laboratory manager in the field of bioanalytical mass spectrometry and liquid chromatography – mass spectrometry. He was responsible for setting up the bioanalytical LC-MS facility of Pharma Bio-Research (currently PRA International), one of the first contract laboratories offering commercial LC-MS services to the pharma industry. He has almost ten years experience as study director of bioanalytical LC-MS studies. He started up the mass spectrometry facilities for the generic pharmaceutical company Synthon and for his current employer PROXY, a pharma contract laboratory.

He is (co-) author of 25 refereed papers in the field of protein and peptide mass spectrometry and bioanalytical LC-MS.

Venue

Window Conference Venue 13 Windsor Street, Islington London, N1 8QG
convenient for central London, in a pleasant informal setting.

Accommodation and travel directions are available on our website

www.pharma-training-courses.com

Terms and Conditions:

Delegate fees: Fees for this programme are shown overleaf. Delegate fees are inclusive of course documentation, refreshments and lunch. Payment of the registration fee must be paid within 14 days of commencement of the course. Upon receipt of payment, a proof of payment will be sent to you. **Cancellation Policy:** Full refunds less a handling fee of £100 will be made for cancellations received in writing within 28 days of the commencement of the course. Refunds of 50% will be made for cancellations received in writing between 28 and 7 days prior to the commencement of the course. Regrettably no refunds will be made after 7 days prior to commencement of the course. Substitutions can be made at any time.

Liability: PharmaTraining Ltd reserves the right to change the programme, speakers, date or venue without notice or cancel the event. If cancellation occurs delegates will be notified as soon as possible and will receive full refund of fees paid. PharmaTraining Ltd will not be responsible for any airfare, accommodation or other travel costs incurred.

For 5 or more staff requiring training it may be beneficial to run a course in-house.

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- Save on travel or accommodation costs
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- Big print savings on course material - especially with larger groups
- Courses arranged for large groups up to 24 staff
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- Meet course speakers in advance to discuss design and content

Contact **Judy Callanan at any time to discuss**

Ph: 0044 (0)20 7193 7703, Fax: 0044 (0)20 7681 3582

Email: judv@pharma-training-courses.com

Course Programme 2011

Planning for Commercial Launch: 29 & 30 March 2011

GMP Auditor Training: New Jersey USA - 11 & 12 April 2011,

London - 9 & 10 May, 7 & 8 November 2011

How to Audit API Manufacturers: New Jersey USA - 13 April 2011, London - 11 May, 9 November 2011

Supply Chain Management in Pharma/Biotech: 5 & 6 May 2011

Technology Transfer: London - 9 & 10 May, 7 & 8 November 2011

Integrated Tablet Formulation Development: New Jersey USA - 7 & 8 April,

London 9 & 10 June, 24 & 25 November 2011

Tablet Process Development, Validation and the application of QbD: New Jersey USA - 11 & 12 April

London - 13 & 14 June, 28 & 29 November

Pharmacokinetics in Drug Development - an Integrated Approach: 9 & 10 June 2011

An Introduction to LC/MS: 19 September 2011

Quantitative Bioanalysis using LC-MS: 20 & 21 September 2011

Writing effective SOPs in a GMP Environment: 13 & 14 October 2011

OOS investigations in a GMP Environment: 18 & 19 October 2011

Stability Testing in Pharmaceutical Development: 16 & 17 May 2011, 12 & 13 December 2011

Introduction to Photostability: 14 December 2011

Pharmaceutical Packaging - an Introductory Course: 14 December 2011

HPLC Analytical Method Development and Validation: 22 & 23 November

Oral Solid Dosage Manufacturing Technology: 28 November 2011

Development and Manufacture of Effervescent Tablets: 30 November 2011

We deliver a range of expert programmes in pharmaceutical development, quality assurance and regulatory topics, plus a range of industry awareness courses.

PharmaTraining
BioCity Nottingham
Pennyfoot Street
Nottingham NG1 1GF
United Kingdom

Tel: ++44 (0)1159 124249

Fax: ++44 (0)20 76813582

info@pharma-training-courses.com

Keep up to date with industry requirements

REGISTRATION FORM

Introduction to LC-MS :

19 September 2011, London

1 day course £610.00 + VAT £122.00

Total £732.00

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Introduction to LC-MS:

19 September 2011, London

Discounted rate for booking and paying by 22 July 2011

1 day course £549.00 + VAT £109.80

Total £658.80

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Introduction to LC-MS *and* Quantitative Analysis using LC-MS

Discount of 10% for booking both courses

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Discount of 10% applies for booking 8 weeks in advance (22 July 2011)

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Discount of 10% applies for booking more than 1 delegate

☐

Discount of 10% applies for booking more than 1 course

☐

Maximum discount received is 15%

Title (Mr/Mrs/Ms/Dr/Prof):

First Name:

Surname:

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Signature:

Method of Payment:

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**Please send completed registration forms
and payment to Judy Callanan at:**



PharmaTraining

BioCity Nottingham
Pennyfoot Street
Nottingham NG1 1GF
United Kingdom

Tel: ++44 (0)1159 124249

Fax: ++44 (0)20 7681 3582

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