



Course



ROYAL
PHARMACEUTICAL
SOCIETY

In association with



www.apsgb.org

Tabletting technology for the pharmaceutical industry

The Møller Centre, Cambridge
Monday 19 – Wednesday 21 November 2012

Do you work in formulation development or the production of tablets? Do you require an intensive course of study on the formulation, production and drug-release characteristics of pharmaceutical tablets? This up-to-date and well-established three-day residential course provides the solution.

The course is an intensive introduction to tableting and the associated processes. Delegates will leave the course with knowledge that they will be able to apply to day-to-day problems in tableting.

The course offers delegates the unique opportunity to discuss real challenges faced in day-to-day work with the expert lecturers. Delegates are encouraged to send in advance, or bring to the course, their own problems in tablet formulation or production for discussion.

WHAT YOU WILL ACHIEVE FROM THE COURSE

By the end of the course you will have:

Received an intensive three day course of study on the formulation, production and drug-release characteristics of pharmaceutical tablets.

- You will understand:
 - the essentials of the formulation of tablets
 - properties of materials used in making tablets
 - the mixing and granulation processes
 - roller compaction
 - tablet machines, instrumentation and PAT
 - requirements of Good Manufacturing Practice
 - scale-up processes
 - development pharmaceutics for registration including QbD concepts
 - tablet testing
 - film coating
- Learn about the current state of knowledge of the subject, both in terms of theoretical basis and practical experience.
- Acquire skills and knowledge you will be able to apply to day-to-day problems in tableting, linked to a sound theoretical knowledge of the principles involved. Form lasting contacts with colleagues in the field, as well as the expert course tutors.



COURSE FORMAT AND MATERIALS

The course is a blend of taught lectures, interactive workshops and problem-based learning sessions. Delegates will be provided with a full set of course notes for use during and after the course. Fees include two-night's accommodation (unless booking a non-residential place) catering and refreshments and a networking social programme.

WHO SHOULD ATTEND

Graduates or technical staff working in the field of formulation development or production of tablets; those who have not previously worked in this field and who require an intensive introduction to tableting and the associated processes; regulatory or Quality staff, and project or contract management personnel with responsibilities for tablet formulation or production activities. Previous attendees include:

- Formulation Officer
- Head of Production
- Laboratory Technician
- Manufacturing Coordinator
- Pharmaceutical Assessor
- Process Specialist
- Product Manager
- Senior Scientist
- Senior Technical Specialist
- Tablet Team Leader

LEARN FROM A TEAM OF EXPERTS



COURSE DIRECTOR:

Dr Kendal Pitt
Technical Director,
GlaxoSmithKline

Dr Pitt has previously worked for Wellcome Foundation Ltd, Roche Pharmaceuticals and MSD for over 20 years in both the UK and USA. His primary research interests are powder compaction, powder flow and granulation process optimisation, including the use of compaction simulators in tablet and capsule product development. He has also published in the area of formulation and design for nasal delivery of pharmaceuticals, and on statistical design of experiments.

COURSE PRESENTERS

- Graham Buckton, University of London
- Michael Wilkins, Almac Pharma Services
- Brian Helsdon, Bosch Packaging Technology Ltd
- Terry Lewis, Consultant
- Marshall Whiteman, Quindell Consulting
- Tesh Patel, Astellas
- Sander van den Ban, GlaxoSmithKline
- Ashley Clarke, Merck, Sharp & Dohme

MONDAY 19 NOVEMBER

- 09.30 Registration**
Tea and coffee
- 10.15 Introduction**
Kendal Pitt, GlaxoSmithKline
- 10.45 Granules and tablets:
A review of the reasons for
granulation and tableting,
the classes of excipients and
principles of operation of
tableting machines**
Graham Buckton,
University of London
- 11.30 Material properties of
importance for tableting (I)**
Graham Buckton,
University of London
- 12.15 Material properties of
importance for tableting (II)**
Graham Buckton,
University of London
- 12.45 Lunch**
- 13.45 A brief introduction to
modified release**
Graham Buckton,
University of London
- 14.15 Dissolution testing**
Graham Buckton,
University of London
- 14.45 Key aspects of tablet
formulation and
characterisation**
Michael Wilkins,
Almac Pharma Services
- 15.45 Tea and coffee**
- 16.00 Problem based learning I:
Active Pharmaceutical
Ingredient (API)**
Kendal Pitt,
GlaxoSmithKline
- Problem based learning 2:
Formulation development**
Michael Wilkins,
Almac Pharma Services
- 16.45 Problem based learning
(continued)**
- 17.30 Topic and speaker tbc**
- 18.00 Close**
- 18.45 Informal reception**
- 19.30 Dinner**

TUESDAY 20 NOVEMBER

08.30 **Tabletting machines and in-process control**
Brian Helsdon,
Bosch Packaging Technology Ltd

09.30 **Punch design**
Terry Lewis,
Consultant

10.30 **Tea and coffee**

10.45 **Compaction simulation**
Kendal Pitt,
GlaxoSmithKline

11.45 **Continuous processing concepts**
Michael Wilkins,
Almac Pharma Services

12.30 **Lunch**

13.30 **Roller compaction**
Kendal Pitt,
GlaxoSmithKline

14.30 **Production workshop**
Terry Lewis and Tesh Patel,
Astellas

15.30 **Tea and coffee**

15.45 **Production workshop**
Second session

16.45 **Close of day's programme**

17.10 **Social programme**

19.45 **Dinner**

WEDNESDAY 21 NOVEMBER

- 08.30 Process Analytical Technology (PAT) applied to tableting**
Sander van den Ban,
GlaxoSmithKline
- 09.30 Granulation equipment and end point control**
Ashley Clarke,
Merck, Sharp & Dohme
- 10.15 Tea and coffee**
- 10.30 Scale-up tablet manufacturing processes and transfer from R&D to production**
Ashley Clarke,
Merck, Sharp & Dohme
- 11.15 An introduction to pharmaceutical coating technology**
Marshall Whiteman,
Quindell Consulting
- 12.15 Lunch**
- 13.15 Coating-advances in techniques of formulation**
Marshall Whiteman,
Quindell Consulting
- 14.00 Compaction characterisation and process understanding**
Kendall Pitt,
GlaxoSmithKline
- 15.00 Concluding discussion**
- 15.15 Close**

For more information or to register, visit
www.rpharms.com/events

WHAT PREVIOUS DELEGATES SAID ABOUT OUR COURSES

“Excellent course, great to have such a varied background of participants and to be able to discuss ideas.”

“I have definitely learned subjects and topics which I will use back at work.”

“Very good course, good technical pitch and a very thorough overview of tableting area. Very enjoyable.”

“Extremely relevant and useful lectures”

VENUE AND ACCOMMODATION

The Møller Centre is a modern and purpose-built conference and training venue in the grounds of Churchill College - easily accessible by road, train and air. Car parking facilities are available.

The Møller Centre
Management and Training
Conference Centre
Storey's Way
Cambridge
CB3 0DE



Two ways to register

- Visit www.rpharms.com/events and pay with credit/debit card or request an invoice.
- Complete this form and post, email or fax it back to us. You will be registered upon receipt of the completed form and payment must be made before the start of the course.

What's included in the fees?

- Course documentation
- Social programme
- Meals and refreshments throughout the day
- Fees with accommodation include two nights at the Møller Centre and evening meals

N.B. Please contact us if you haven't received an email confirmation of your booking within 5 working days of submitting your form.

MEMBERS	Early bird fee (before 24.09.12)	Full fee
Course only	<input type="checkbox"/> £1,145	<input type="checkbox"/> £1,305
Course + accommodation + evening meals	<input type="checkbox"/> £1,435	<input type="checkbox"/> £1,595
NON-MEMBERS	Early bird fee (before 24.09.12)	Full fee
Course only	<input type="checkbox"/> £1,200	<input type="checkbox"/> £1,360
Course + accommodation + evening meals	<input type="checkbox"/> £1,490	<input type="checkbox"/> £1,650

PAYMENT AND DETAILS

Method of payment	Debit/credit card (someone will contact you to obtain your card details)	
	<input type="checkbox"/> Bank transfer (Sort code 60 60 04 Account number 45130574 National Westminster Bank, 91 Westminster Bridge Road, London SE1 7ZB) <input type="checkbox"/> Quoting reference: MMS EVT 405	
Title	Firstname	Surname
Job title	Company	
Address		
Postcode		
Telephone	Membership number	
Email		
Dietary requirements		

PLEASE RETURN THIS FORM TO:

Events Coordinator; Royal Pharmaceutical Society, 1 Lambeth High Street, London SE1 7JN **Telephone:** 0845 257 2570 **Fax:** 020 7572 2506 **Email:** events@rpharms.com **Web:** www.rpharms.com/events

The contact details you have provided may be used to keep you informed about future RPS Events, products and services. If you do not wish to receive such information by any of the methods listed, please indicate by ticking the corresponding box: Post Telephone Email All

Cancellations policy. For full details of terms and conditions please visit www.rpharms.com/eventstc. For cancellations, the following refunds will apply:

More than 30 working days before the event = 50% of the fee, 30 working days or less = no refund. In the unlikely event of the cancellation of the event, delegates will receive a full refund of the fees but we can not be held liable for other expenses incurred by delegates.