



Course



ROYAL  
PHARMACEUTICAL  
SOCIETY

In association with



[www.apsgb.org](http://www.apsgb.org)

# Tabletting technology for the pharmaceutical industry

The Møller Centre, Cambridge  
Monday 14 – Wednesday 16 November 2011

**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 of processes
- development pharmaceuticals 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. Formed 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.

- Graham Buckton, University of London
- Michael Wilkins, Almac Pharma Services
- Brian Helsdon, OYSTAR Manesty
- Terry Lewis, Consultant
- Marshall Whiteman, Quindell Consulting
- Ken Leiper, Benson Associates
- Ashley Clarke, Merck, Sharp & Dohme

## MONDAY 14 NOVEMBER

**09.30 Registration**

**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**

**16.00 Problem based learning 1:  
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 Close**

**18.45 Informal reception**

**19.30 Dinner**

**TUESDAY 15 NOVEMBER****08.15    Tabletting machines and  
in-process control**

Brian Helsdon,  
OYSTAR Manesty

**09.15    Punch design**

Terry Lewis,  
Consultant

**10.15    Coffee****10.30    Compaction simulation**

Kendal Pitt,  
GlaxoSmithKline

**11.30    An introduction to  
pharmaceutical coating  
technology**

Marshall Whiteman,  
Quindell Consulting

**12.30    Lunch****13.30    Coating-advances in  
techniques of formulation**

Marshall Whiteman,  
Quindell Consulting

**14.30    Production workshop**

Terry Lewis,  
Consultant

**15.30    Tea****15.45    Production workshop**

Second session

**16.45    Close of day's programme****17.10    Social programme****19.45    Dinner**

## WEDNESDAY 16 NOVEMBER

**08.30 Process Analytical  
Technology (PAT)  
applied to tableting**

Ken Leiper,  
Benson Associates

**09.30 Roller compaction**

Kendal Pitt,  
GlaxoSmithKline

**10.15 Coffee**

**10.30 Granulation equipment  
and end point control  
automation**

Ashley Clarke,  
Merck, Sharp & Dohme

**11.15 Continuous processing  
concepts**

Michael Wilkins,  
Almac Pharma Services

**12.00 Lunch**

**13.00 Scale-up of tablet  
manufacturing processes  
and transfer from R&D  
to production**

Ashley Clark,  
Merck, Sharp & Dohme

**13.45 Compaction  
characterisation and  
process understanding**

Kendal Pitt,  
GlaxoSmithKline

**14.45 Concluding discussion**

**15.00 Close**

For more information or to register visit  
[www.rpharms.com/events](http://www.rpharms.com/events)

## WHAT PREVIOUS DELEGATES HAD TO SAY

“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

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



**Two ways to register**

- Visit [www.rpharms.com/events](http://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 19.08.11)	Full fee
Course only	<input type="checkbox"/> £1145	<input type="checkbox"/> £1305
Course + accommodation + evening meals	<input type="checkbox"/> £1435	<input type="checkbox"/> £1595
NON-MEMBERS	Early bird fee (before 19.08.11)	Full fee
Course only	<input type="checkbox"/> £1200	<input type="checkbox"/> £1360
Course + accommodation + evening meals	<input type="checkbox"/> £1490	<input type="checkbox"/> £1650

**PAYMENT AND DETAILS**

Method of payment  Debit/credit card (someone will contact you to obtain your card details)

Bank transfer (Sort code **60 60 04** Account number **70378193**  
National Westminster Bank, 91 Westminster Bridge Road, London SE1 7ZB)  
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](mailto:events@rpharms.com) **Web:** [www.rpharms.com/events](http://www.rpharms.com/events)

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