APV Expert Workshop Tableting:
- Comparison of tablet presses for production and development based on different formulations
- Hands-on experiences
- Sound knowledge transfer by well-known speakers

26 – 27 April 2017
Dortmund, Germany

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Arbeitsgemeinschaft für Pharmazeutische Verfahrenstechnik e.V.
Gemeinnütziger wissenschaftlicher Verein
International Association for Pharmaceutical Technology
Programme

Wednesday, 26 April 2017, 09:00 - 19:00

Welcome address and house keeping information
Markus Thommes
Technical University Dortmund, Dortmund, Germany

Aspects on tablet formulation
- Categories and quality attributes of tablets
- Tablet excipients
- Drug release from immediate release and prolonged release tablets
- Formulation aspects of immediate release and prolonged release tablets
- Unit operations and manufacturing routes
Göran Alderborn
University of Uppsala, Uppsala, Sweden

Assessment of the mechanical properties of compacted API, Excipients and Tablets
- Mechanical properties of materials
- Characterization Methods
- Hiestand Indices Approach
- Amidos Prediction Model
- Compaction Simulation as a characterization tool
Felipe Amado Becker
F. Hoffmann-La Roche AG, Basel, Switzerland

Investigation of process-induced transformations in formulation matrix
- Solid form diversity & need for understanding solid form changes
- Formulation aspects affecting phase transformation behaviour of API during drug product manufacturing processes
- Experimental designs for the investigation of phase transformations during various unit operations of tablet manufacturing processes:
  - Dry granulation
  - Tableting
- Case studies
Dhara Rajjada
F. Hoffmann-La Roche AG, Basel, Switzerland

Minitables
- Definition and classification
- Toolings
- Differences to larger tablets
- Application studies
Ines Wening
Mundipharma Research GmbH & Co. KG, Limburg, Germany

Reliable Data Acquisition in Tableting
- State-of-the-art sensor technology for force (strain gage vs. piezo) and displacement (inductive vs. incremental)
- Installation aspects and traps in real world
- Basic steps to data analysis
- Dynamic aspects on production presses
- Calibration and plausibility checks
Mathias Hucke
Hucke Software, Solingen, Germany

Practical course part I with experiments on machines in small groups

Physics of powder compression and compaction
- Powder compressibility and compression mechanisms
- Analytical powder compression
- Assessment of friction during powder compression
- Bonding in tablets and tablet mechanical strength
- Powder compactibility
Göran Alderborn
University of Uppsala, Uppsala, Sweden

Practical course part II with experiments on machines in small groups
Objectives

Tablets are the most important and most common form of medicine worldwide. In the past few years scientific knowledge has emerged, especially in the field of tablets, which allows us to turn from the “art of tableting” to a knowledge-based development and production of tablets. On this basis the participants will be offered the basics of formulation development and the production of tablets.

In small groups the internship is conducted under the supervision of experienced instructors on various tablet machines ranging from production to development presses. Each participant will actively participate in trials for the production of tablets and various methods for their characterization. On the basis of selected examples, typical approaches and solutions are shown, which are subsequently discussed in detail.

At the end of the course, the participants should have basic knowledge about the solution of tableting tasks. The focus is on the natural sciences and engineering aspects of tableting. Regulatory aspects, such as cleaning or validation are not dealt with.

Dedicated lectures dealing with:
- Formulations
- Mechanical properties
- Compression and compaction theory
- Process induced transformations
- Minitablets
- Data acquisition
- Compaction simulators
- Predictability of tablet properties
- Technical concepts of tablet presses

Target Group

Addressed to everybody who wants to gain insight into theory and practice of tableting during development, production, and quality control. The course is targeted at academic staff and experienced laboratory or manufacturing employees who seek a better understanding of processes, formulations and their interactions in order to gain an overview of tableting issues.
Registration by fax +49 6131 9769-69

APV Expert Workshop Tableting, Course no. 6681

Location
Lab-Course:
Technische Universität
Dortmund
Emil-Figge-Str. 68
44227 Dortmund

Lectures:
Technologie Zentrum Dortmund GmbH
Emil-Figge-Str. 76-80
44227 Dortmund

I herewith revocably authorise APV to use my E-mail address to send me APV relevant material including current programme information. My acceptance can be cancelled at any time in writing.

Date
Course no. 6681
from 26 April 2017 09:00 h
to 27 April 2017 16:00 h

Registration fee
Industry 1690 EUR
Authorities 845 EUR
Students* 178 EUR
(free of VAT according to § 4,22 UStG)
Coffee breaks, luncheons, dinner and electronic proceedings included.

*Limited places for full-time students available; written evidence must be submitted.

Registration
As soon as you have found a seminar of your interest, it is very easy to register for it via fax, e-mail or online. We will process your registration promptly and certainly are available for any questions that may arise.

Registration confirmation
After your registration was successfully processed, you will receive a confirmation.

Before the event
A few days before the event starts, you will receive important information about the seminar, such as time, date, addresses etc.

After the event
You will receive a certificate confirming your participation. Furthermore, we would like to ask you to fill in our evaluation sheet to make sure we get better every time.

Follow-up
After the event, we are open to receive any suggestions and critique that might arise during the seminar and we will certainly help you with further questions you may have.

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Mainz, January 2017

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Special rate:
Single room incl. breakfast buffet from 119 EUR per night.

Participants should make their own hotel reservation referring to the APV seminar.

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