

SOLIDS DEVELOPMENT CONSULT

Filling the Gaps between Pharma and Technology

Seminars in Leverkusen

in December 2018

Seminar 1:

Formulation Development of Tablets in Theory and Practice

04.-05.12.2018

Seminar 2:

Early Stage Development of Dry Granulates

06.-07.12.2018



TWO Seminars:

two of our core seminars in one week



DOUBLE Experience:

combination of hands-on and theory sessions



EARLY BIRD:

special discount for registration by July 31st

Speaker

Dr. Rob Lammens

has more than 40 years experience of in the field of solid dosage forms. After his PhD in Pharmaceutical Technology at the University of Leiden, he was employed at BAYER for 23 years, focusing on instrumenting pharmaceutical equipment, process visualization and engineering. From 2001 to 2014 he was a lecturer at the University of Bonn, besides working as freelancer. In 2014, he founded SDC together with Dr. Fretter.



Maarten Lammens

graduated in business informatics at University of Cologne. He gathered many years of experience working as a management consultant for a huge consulting company, focusing on process optimization, project and IT management. In 2016, Mr. Lammens joined SDC as newcomer in Pharmaceutical Technology, complementing the team with his experience.



Dr. Barbara Fretter

graduated in Pharmaceutics and then obtained her PhD in Pharmaceutical Technology at The University of Bonn, where she worked as Post-Doc focusing on instrumentation of tablet presses to investigate the deformation behavior of powders. During this period she was responsible for several industrial contract research projects in the field of solid dosage forms. In 2014, she founded SDC together with Dr. Lammens.



Dr. Benjamin Frindt

graduated in Process and Plant Engineering with the focus on multivariate data analysis. He obtained his PhD at the department of organic chemistry in Cologne, working on online and inline measurement techniques in order to optimize batch and continuous chemical processes. Subsequent, he worked as Post-Doc in Cambridge (UK) developing new coupling techniques for online analyzer. Mr. Frindt joined SDC at the end of 2016.



Seminar 1: Formulation Development of Tablets in Theory and Practice

Characterization of Formulations with Compaction Simulators and Rotary Tablet Presses

04. – 05.12.2018
Leverkusen, Germany

Objectives

This seminar combines the basics of formulation development with hands-on sessions in small groups. It focuses on a practical approach to characterize formulations properly, both at a rotary tablet press and a compaction simulator. It will deal with the format independent characterization of the mechanical strength of tablets and the standard deviation of tablet weight, being a proper indicator of the flowability of materials. Therefore, all participants will get a profound impression of the benefits and constraints of compaction simulators and the functionality of rotary presses including their control algorithms. Additionally, excipients for solid dosage development will be introduced, especially with respect to direct tableting. In the practical part, compaction simulators from Medelpharm and medium sized production rotary tablet presses will be used.

Target Audience

All professionals from development and production, who are interested in acquiring or enlarging the knowledge relevant to formulation development of tablets, both theoretically and practically.

Program

Theory

- Basic Principles of Tableting and Definitions: tablet types and geometries, important tablet properties for development and how to affect them, tablet press parameters
- Characterizing formulation properties independent of tablet dimensions: from crushing force towards a format independent material property
- Relevant Flowability of Formulations: standard deviation of tablet weight, statistics of production limits, press parameters influencing s%w
- Benefits and limitations of compaction simulators and small rotary tablet presses
- Real time evaluation of rotary tableting and control algorithms of rotary presses
- An overview of excipients for tableting

Hands-on

- Characterizing powders with a Styl'One and a Stylcam
- Performing force-hardness profiles at medium sized production rotary presses (Kilian's KTP420)
- Determining standard deviation of tablet weight (s%)

Date

Seminar 1: 04.-05.12.2018
Day 1+2: 9:00 – 17:30
(detailed schedule will be announced)

Please let us know if you want to join the networking event on day 1.

The number of participants is limited.

Registration Fee

(per attendee plus VAT¹)

1 810 € (early bird registration by 31.07.2018)

2 090 € (after 31.07.2018)

The conference fee is payable in advance after receipt of invoice and includes conference documentation, joint evening event on the first day, lunch on both days, all refreshments and shuttle between theory and hands-on sessions.

¹ VAT is invoiced according to German tax law.

Location

The theory sessions will take place in the Lindner Hotel BayArena. The hands-on sessions will be in our facility (ref. to contact on last page).

A shuttle is organized for all participants.

Accommodation

Lindner Hotel BayArena
Bismarckstr. 118
51373 Leverkusen, Germany
+49 214 866 370 3
info.bayarena@lindner.de

Please make your reservation directly with the hotel. Special rate available till 21.10.2018, key word: "SDC".

Single Room: 119 € p.n.

Seminar Language

The seminar language will be English.

Seminar 2: Early Stage Development of Dry Granulates

Theoretical Background in Depth and Hands-on Sessions in Small Groups

06. – 07.12.2018
Leverkusen, Germany

Objectives

During this 2-day seminar we will deal with two different approaches to developing dry granulates. The first approach will focus on performing the major development part on a compaction simulator including initial feasibility studies. The second will cover knowledge-based roller compactor trials at an early stage. Theoretical and practical sessions will deal with the background of these approaches.

Target Audience

All professionals from R&D, who are interested in developing a dry granulate with very small amounts of API, both theoretically and practically.

Program

Theory

- Main Aspects of Roller Compaction: powder densification between rolls, density and strength distribution in ribbons, milling parameter, sieve type and size, scale up
- Basic principles of small scale development of dry granulates based on tablets
- Manufacturing and evaluating granulates at a small scale

- Characterizing powders appropriately and independently of tablet dimensions
- Requirements to API and choosing excipients for dry granulation/roller compaction
- Design of Experiments: a knowledge based approach and limits of DoE
- Case study of a small scale dry granulation formulation development

Hands-on

- Roller Compactor (Gerteis): determining manufacturing space, interpreting measurement signals, first experiments, dealing with small amounts, determining at-gap density, setup for validation experiments
- Compaction Simulator (Kilian/Medelpharm): extended force-hardness profiles for characterizing powders, mimicking the roller compaction step with a tablet press, choosing settings and trial parameters, milling small amounts
- PSD (Sympatec): Demonstration of Sympatecs QICPIC for PSD on several powders/granulates

Date

Seminar 2: 06.-07.12.2018
Day 1+2: 9:00 – 17:30
(detailed schedule will be announced)

Please let us know if you want to join the networking event on day 1.

The number of participants is limited.

Registration Fee

(per attendee plus VAT¹)

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Single Room: 119 € p.n.

Seminar Language

The seminar language will be English.

Registration and Contact

Solids Development Consult GmbH
 Peter-Joseph-Lenné-Str. 11
 51377 Leverkusen, Germany

+49 (0)214 506 975 70
 info@solids-development.de
 www.solids-development.de

Please send the signed registration form with your data via email or mail.

I want to register to following seminars (please choose one seminar or both)

Seminar 1: Formulation Development of Tablets in Theory and Practice

04. – 05.12.2018

Seminar 2: Small Scale Development of Dry Granulates

06. – 07.12.2018

If you choose to register for both seminars we will grant you a special discount of 10 % on the seminar rates.

Title, First Name, Last Name	Email Address Participant
Job Title	Billing Address (if different from company address)
Company Name	
Street and No	
Zip-Code and Location	VAT No (if applicable)
Phone	Date, Signature

I want to join the networking event/joined dinner on day 1.

Yes No

I want to receive to the Solids Development Consult newsletter (quarterly).

Yes No

General Terms and Conditions

Cancellation Fees

- Up to 4 weeks prior to the conference 10 %
- Up to 2 weeks prior to the conference 50 %
- Within 2 weeks prior to the conference 100 %.

We are happy to welcome a substitute colleague at any time.

We reserve the right to change the program, materials or speakers without notice or to cancel the event. If the event must be cancelled, registrants will be notified as soon as possible and will receive a full refund of fees paid. Solids Development Consult GmbH will not be responsible for discount airfare penalties or other costs incurred due to a cancellation.

Terms of payment

Payable without deductions within 10 days after receipt of invoice.

Important

This is a binding registration. If you cannot take part, you have to inform us in writing. The cancellation fee will then be calculated according to the point of time at which we receive your message. In case you do not appear at the event without having informed us, you will have to pay the full registration fee, even if you have not made the payment yet. You are entitled to participate only after we have received your payment.

Privacy Policy

By registering for this event, I accept the processing of my personal data. Solids Development Consult GmbH (SDC) will use my data for the processing of this order, for which I hereby declare to agree that my personal data is stored and processed. SDC will only send me information in relation with this order or similar ones. My personal data will not be disclosed to third parties. I acknowledge that I can ask for the modification, correction or deletion of my data at any time.