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27. Juni 2016

Einladung zum Vortrag

von

Dr. Jan Henrik Finke

TU Braunschweig

Pharmaceutical Process Engineering – Technologies for solid and liquid dosage forms

Commonly, the drug substance alone is not applicable to patients. Reasons for this are, *inter alia*, that low doses of milligrams or micrograms are impossibly handled by patients, drugs need to be protected from outer stresses like gastric acid, a prolonged liberation of the drug is desired, or the bioavailability needs to be improved because of poor aqueous solubility of the drug substance. Accordingly, drugs need to be formulated in dosage forms such as tablets, capsules, emulsions, suspensions or semi-solid preparations.

Pharmaceutical process engineering comprises the understanding, design, and model-like description of processes for the manufacturing and modification of dosage forms. To gain insight in how the process parameters affect final product properties, process-structure as well as structure-property relationships need to be elucidated. Examples of processes currently under investigation are the manufacturing and design of orodispersible films with improved properties, the fundamental understanding of the compaction behaviour of excipients and drug substances, as well as nanomilling and nanoprecipitation in microsystems of drug substance. To characterize influences and relationships that are not directly assessable by experiments and to enable a prediction of suitable process parameters on the basis starting material properties, different simulation approaches complete the approach of pharmaceutical process engineering.

Termin: **Dienstag, 28. Juni 2016, 16:00 Uhr**

Ort: **Universität Ulm, Helmholtzstr. 18, Raum 2.20**

Der Vortrag findet im Rahmen des Forschungsseminars des Institutes für Stochastik statt.
Alle Interessenten sind herzlich eingeladen.

gez. V. Schmidt