The next generation pharma skills you will need in view of continuous manufacturing

Exclusive 3-day training by leading academic, industry and regulatory experts



Organised by:









Tuesday, Sep 11th

Introduction to continuous manufacturing platforms and material characterisation

12.30-13.00 Registration and lunch buffet

13.00-13.20 Welcome and introduction

13.20-14.50 Importance of raw material and formulation blend characterisation (raw materials and blends)

- Relevant raw material and blend properties and their characterisation techniques
- Material property data bases: overview, predictive use, maintenance and challenges
- Material variability
- Impact of material properties on the behaviour, performance and residence time of screw feeding systems in a continuous manufacturing platform

14.50-15.20 Cofffee break

15.20-16.00 Case study: design space determination of a continuous tablet manufacturing process via wet granulation through empirical process models

16.00-16.45 Empirical versus mechanistic modelling of continuous drug product manufacturing processes. Fundamentals - their complimentarity - importance of proper data collection

16.45-17.30 Material data base **DEMO** + Q&A

17.30-17.45 Take home messages of the day

19.00 Dinner

Speakers

- -Prof. Thomas De Beer (Ghent University)
- -Prof. Ingmar Nopens (Ghent University)
- -Multiple scientists with hands-on expertise
- -Scientists from Glatt (speakers to be confirmed)
- -Regulatory experts (EMA and others; to be confirmed)

Demo's include:

- -Continuous process lines in action
- -Impact of material properties on CM unit operations
- -Flow sheet modelling of continuous manufacturing
- -Mechanistic modelling of twin-screw granulation, drying and milling

Organisers







Venue

TTC - Technology Training Center, Meitner Ring 1, 79589 Binzen, Germany



Wednesday, Sep 12th

Modelling and simulation towards design space definition

8.00-8.30 Transfer from hotel to TTC + coffee

8.30-8.45 Introduction to Day 2

8.45-9.15 Current status on feeding and blending modelling

9.15-14.00 Modelling of CM unit operations

9.15-9.45 Twin-screw granulation: collection of high quality data for model development, calibration and validation

9.45-10.30A holistic systems view of drug product manufacture and invitro/in-vivo performance - Flow sheet modelling - Generic model + **DEMO**

10.30-11.00 Coffee break

11.00-12.00 Twin screw granulation: model development, calibration and validation + **DEMO**

40 00 40 00 Lucab basel

12.00-13.00 Lunch break

13.00-14.00Data collection and modelling of drying and milling in a continuous manufacturing platform + DEMO

14.00-14.45 Optimal experimental design (OED) - OED vs Design of Experiments (DoE) - OED for efficient model

calibration and process optimisation for new formulations - Uncertainty analysis as essential step in the establishment of the model-based Design Space determination for continuous manufacturing processes

14.45-15.35 Coffee break and transfer to innovation center

15.35-17.00 LIVE DEMOS with continuous process lines including feeding, blending, wet granulation, fluid bed drying, dry milling

17.00-17.20 Take home messages of the day

19.00 Wine tasting and dinner

Thursday, Sep 13th

PAT for monitoring and control of continuous manufacturing processes

8.00-8.30 Transfer from hotel to TTC + coffee

8.30-8.45 Introduction to Day 3

8.45-9.15 3D modelling of liquid mixing for pharma applications

9.15-9.45 PAT for monitoring and control of continuous manufacturing processes for drug products - SPC - traceability - F-test

9.45-10.30 Data collection and management and track and trace 10.30-11.00 Coffee break

11.00-12.00 Advanced process control of continuous processes for drug products

12.00-13.00 Lunch

Register here

Rates (EUR, excl. VAT)

 Industry
 1,700
 1,500

 Government/academia
 1,200
 1,000

 Student
 1,000
 800

LIMITED TO 50 SEATS Early bird rate ends July 1st

Normal rate

AM-TEAM.com/training training@AM-TEAM.com

Sponsoring and exhibition

Ample exhibition space in the direct vicinity of the lectures is foreseen. Breaks will be organised in the exhibition hall.

Application and info: training@AM-TEAM.com

www.AM-TEAM.com/training