

## Program

### Tuesday, 8 March 2011

- 08:30 *Transfer from hotel to TTC*
- 08:45 *LogIn*
- 09:00 Introduction *Klaus Eichler*
- 09:05 Principles of fluid bed processing *Agba Salman*
- 10:00 *Coffee break*
- 10:30 Interactions of process parameters with respect to thermodynamic principles *Bernhard Luy*
- 11:30 Principles of fluid bed drying *Agba Salman*
- 12:30 *Lunch*
- 13:30 Practical introduction to fluid bed installations: field visit at the application laboratories *Matthias Plitzko  
Roger Schütz*
- 15:00 Continuous fluid bed processing *Michael Jacob*
- 15:45 *Coffee break*
- 16:15 Introduction to particle coating *Atul Mehta*
- 17:00 Spray nozzle considerations *Roger Schütz*
- 17:45 *Transfer to hotel*
- 19:30 *Workshop dinner*

### Wednesday, 9 March 2011

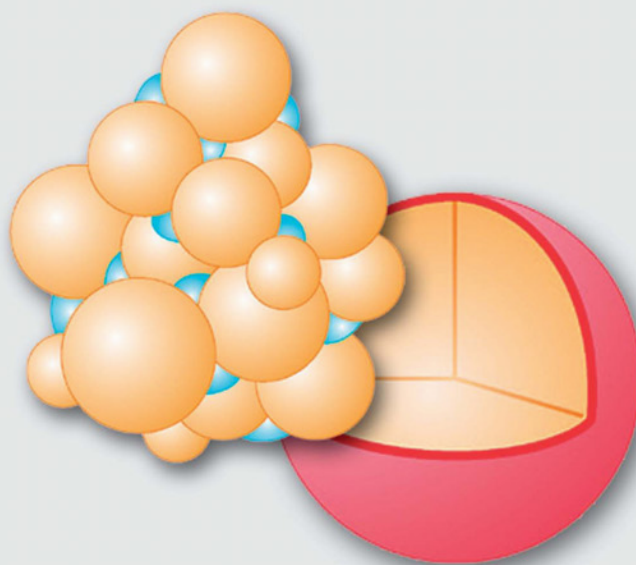
- 08:40 *Transfer from hotel to TTC*
- 09:00 Process parameters analysis and process understanding – some industrial examples *Tibor Nagy*
- 10:00 Excipients for fluid bed processing *Ulrich Müller*
- 10:45 *Coffee break*
- 11:00 The theory behind scale-up *Atul Mehta*
- 11:45 Material handling in the powder processing industries *Mike Cliff*
- 12:30 *Lunch*
- 13:30 Scale up – The real world  
Factory visit
- 14:30 Practical granulation and filmcoating tests *Roger Schütz  
Petra Risse*
- 17:45 *Transfer to hotel*
- 19:00 *Workshop dinner*

### Thursday, 10 March 2011

- 08:40 *Check-out from hotel and transfer to TTC*
- 09:00 GMP-conform cleaning *Jochen Berger*
- 10:00 Dry powder coating – process optimization and film formation mechanism *Caroline Kablitz*
- 10:45 *Coffee break*
- 11:15 WIP/CIP for fluid bed *Matthias Plitzko*
- 12:00 *Snack buffet and LogOut*
- 12:30 *Transfer to Basel Badischer Bahnhof / Airport*

## Workshop no. 164

# Fluid bed processing



**8 - 10 March 2011**

## Background

With growing international competition, many companies have to re-engineer their business to reach the target of improving yield, efficiency, market share and (if possible) profit.

On the other hand, universities and high schools are not equipped sufficiently to provide sound practical education.

We wish to fill the existing gap, having decades of experiences in building and using production equipment.

What makes us different from other institutions offering specialized training:

**THE UNIQUE HANDS-ON-APPROACH**

## Who should attend

Operators and researchers from pharmaceutical and related industries where compliance to GMP standards, accuracy and reproducibility is imperatively required.

## Speakers

### Jochen Berger

Ecolab (Schweiz) GmbH, Switzerland

### Dr. Mike Cliff

Consultant Engineering Technologist, UK

### Michael Jacob

Glatt Ingenieurtechnik GmbH, Germany

### Dr. Caroline Kablitz

Novartis Animal Health, Switzerland

### Dr. Bernhard Luy

Glatt GmbH, Germany

### Dr. Atul Mehta

Mehta Consulting LLC, USA

### Ulrich Müller

HARKE Pharma GmbH, Germany

### Dr. Tibor Nagy

Gedeon Richter Ltd., Hungary

### Dr. Matthias Plitzko

Glatt GmbH, Germany

### Petra Risse

Glatt Pharmaceutical Services, Germany

### Prof. Dr. Agba Salman

University of Sheffield, UK

### Roger Schütz

Glatt GmbH, Germany



## Moderation

### Klaus Eichler

Technology Training Center, Binzen, Germany

## Details

- The participation fee is € 1.770,- (exclusive of VAT). This fee includes participation, accompanying course notes, daytime catering and dinner. Any other expenses are to be borne by the attendee.
- Free attendance granted to a limited number of students.
- Participation is limited. Registrations will be confirmed on a first come first serve basis.
- Courses taking place in Germany are subject to Value Added Tax (VAT).
- Each participant will receive a certificate of attendance at the end of the course.

## Organisation

### TTC (Technology Training Center)

Klaus Eichler / Bianca Nowak

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For further information or online-registration please visit

[www.ttc-binzen.de](http://www.ttc-binzen.de)

## Place of venue

### Technology Training Center

Binzen, Germany

## Registration TTC 164

### Fluid bed processing

8 - 10 March 2011

First name \_\_\_\_\_

Last name \_\_\_\_\_

Company \_\_\_\_\_

Dept. \_\_\_\_\_

Function \_\_\_\_\_

Street \_\_\_\_\_  
\_\_\_\_\_

City \_\_\_\_\_

Zip Code \_\_\_\_\_

Country \_\_\_\_\_

Phone \_\_\_\_\_

Fax \_\_\_\_\_

Email \_\_\_\_\_

- Accommodation required - we will make the hotel reservation for you.

Check-in-day \_\_\_\_\_

Check-out-day \_\_\_\_\_

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Nights \_\_\_\_\_

Approx. Euro 95,00 / Night incl. breakfast

[▶ Click here to register online](#)