

ICPE 2016 – 7<sup>th</sup> International Congress on Pharmaceutical Engineering  
14 to 15 September 2016, Course no. 6644  
Graz University of Technology, Graz, Austria

# ICPE 7<sup>th</sup> International Congress on Pharmaceutical Engineering



## Organizing Institutions



## Key topics:

- Advanced Pharmaceutical Manufacturing
- Continuous manufacturing
- PAT for continuous manufacturing
- Regulatory aspects of continuous manufacturing

# Programme

Wednesday, 14 September 2016

09:00-18:00

## Welcome reception/opening

Prof. Dr.-Ing. Horst Bischof  
Vicerector for Research  
Graz University of Technology, Austria

Prof. Dr. Johannes Khinast  
Research Center Pharmaceutical Engineering GmbH  
Institute of Process and Particle Engineering,  
Graz University of Technology, Austria

Prof. Dr. Dr. h.c. Peter Kleinebudde  
Institute of Pharmaceutics and Biopharmaceutics,  
Heinrich-Heine-University, Duesseldorf, Germany

## Regulatory session

### Regulatory aspects of continuous manufacturing

Dr. Jobst Limberg  
Scientific Director, European and International Affairs,  
Head of Unit Scientific Quality/Peer Review  
Federal Institute for Drugs and Medical Devices,  
BfArM, Bonn, Germany  
Member of EMA PAT Team and Medicinal Products  
for Human Use/Committee for Medicinal Products for  
Veterinary Use Quality Working Party (QWP)

## Accademic research centre session

### New Paradigms in Pharmaceutical Manufacturing: Research in continuous manufacturing in the C-SOPS

Prof. Benjamin J. Glasser  
Engineering Research Center for Structured Organic  
Particulate Systems (C-SOPS)  
Department of Chemical & Biochemical Engineering  
School of Engineering  
Rutgers, The State University of New Jersey, New  
Brunswick, United States

### From the molecule to the medicine: Research in continuous manufacturing in the SSPC

Dr. Patrick Frawley  
Synthesis and Solid State Pharmaceutical Centre  
Department of Chemical and Environmental Sciences  
Materials and Surface Science Institute  
University of Limerick, Ireland

## Lunch break and poster session

### Research in continuous manufacturing in the RCPE

Prof. Dr. Johannes Khinast  
Research Center Pharmaceutical Engineering GmbH  
Institute of Process and Particle Engineering,  
Graz University of Technology, Austria

### Simplified formulations for continuous twin screw granulation: Research in continuous manufactu- ring at the HHU

Prof. Dr. Dr. h.c. Peter Kleinebudde  
Institute of Pharmaceutics and Biopharmaceutics,  
Heinrich-Heine-University, Duesseldorf, Germany

## Short lecture session I

### In-line monitoring of multi-layered film-coating using Raman spectroscopy by MCR and PLS ana- lyses

Jin Hisazumi, Heinrich\_Heine-University Düsseldorf,  
Germany

### Comparison of Wet Milling and Dry Milling Tech- nologies for Pharmaceutical Crystals

Dinesh Kumar, Trinity College, Dublin, Ireland

### Steering of granule CQAs in low drug load formu- lations using continuous twin screw granulation

Christoph Portier, Ghent University, Belgium

## Panel discussion with all the speakers

## Welcome reception on behalf of the Mayor of Graz and networking buffet

TU Graz (Rechbauerstrasse 12, 8010 Graz)

Thursday, 15 September 2016

09:00-17:00

## Welcome address

### Industrial implementations of continuous manufacturing session

#### Scientific, Regulatory and Business Landscape of Continuous Pharmaceutical Manufacturing

Christine M. V. Moore, Ph.D.

Global Head and Executive Director

GRACS CMC – Regulatory Policy and Compendial Affairs, Merck, Sharp and Dohme Corp., Kenilworth, United States

#### Accelerating commercial adoption of continuous manufacturing

Nicola Sewell

GSK, Stevenage, United Kingdom

### Short lecture session II

#### RTD modeling of a continuous dry granulation process enabling advanced control concept for out-of-spec handling

Jakob Rehr, RCPE GmbH, Graz, Austria

#### Use of Sensors to Monitor Hard-gelatin Capsule-filling Processes in the Context of Quality by Design

Bernhard Wagner, Robert Bosch GmbH, Waiblingen, Germany

#### Twin-screw Extrusion Coupled with Melt Blowing for Continuous Manufacturing of Amorphous Solid Dispersions

B. Démuth, Budapest University of Technology and Economics, Budapest, Hungary

#### Panel discussion with all the speakers

### Lunch break and poster session

### Guided visit of labs of RCPE Graz

### End of conference

#### Dear Colleagues,

Welcome to Graz and to the 7th International Congress on Pharmaceutical Engineering. It is a great honor and an exciting challenge for the Graz University of Technology, as well as for the Research Center Pharmaceutical Engineering (RCPE) and the International Association for Pharmaceutical Technology (APV) to host an event that gathers together the most distinguished scientists in the field of pharmaceutical engineering as well as young scholars presenting the results of their first research efforts.



Prof. Dr. Johannes Khinast  
TU Graz and RCPE Graz



Prof. Dr. Dr. h.c. Peter Kleinebudde  
HHU Düsseldorf and APV Focus group head



# Registration by fax +49 6131 9769-69

## Location

Technische Universität Graz  
Rechbauerstraße 12  
8010 Graz  
Austria

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

## Date

Course no. 6644  
from 14 Sept. 2016 09:00 h  
to 15 Sept. 2016 17:00 h

## Registration fee

Industry	760 EUR
Accademia	380 EUR
Students	120 EUR

(copy of student card required; only for full time students)  
(free of VAT according to § 4,22 UStG)

Coffee breaks, luncheons, networking reception and electronic proceedings included.

## Registration

APV-Geschäftsstelle  
Kurfürstenstraße 59  
55118 Mainz/Germany  
Phone: +49 6131 9769-0  
Fax: +49 6131 9769-69  
e-mail: apv@apv-mainz.de

You will receive a confirmation of your registration with the invoice.

## Hotel reservation

You can find a variety of hotels using the following link:

[https://www.graztourismus.at/kongress/en/7th-icpe\\_kongress-formular-6482](https://www.graztourismus.at/kongress/en/7th-icpe_kongress-formular-6482)

The link is also available at [www.apv-mainz.de](http://www.apv-mainz.de)

Mainz, May 2016

## 7<sup>th</sup> International Congress on Pharmaceutical Engineering, Course no. 6644

### 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 will certainly help you with further questions you may have.

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