

# EuPAT

4

## Fourth pan-European PAT Science Conference

Second Announcement – November 2009

## Taking PAT to the Next Level

May 5-6 • 2010 • Hotel Puijonsarvi • Kuopio • Finland

### Invitation to Join

This is to invite you to submit abstracts and attend the fourth pan-European Science Conference on Process Analytical Technology (PAT), building on the success of the previous EuPAT meetings. It will be held on May 5-6, 2010, in Kuopio, Finland, and organised back-to-back to a Graduate School Course “Process analytical aspects of biopharmaceutical manufacturing”, held on May 4, 2009, in Kuopio. The attendees of EuPAT4 are welcome to register to the graduate school course and vice versa.

The EuPAT Conference Series is a unique forum for scientists and engineers, encouraging and promoting progress in science behind PAT and strengthening the interdisciplinary scientific discussion that bridges between the various fields underpinning PAT.

### EuPAT4 Session Topics

The topic of EuPAT4 – Taking PAT to the Next Level – underlines the importance of comprehensive process understanding. At this event special attention will be paid to following topics:

- PAT in solid dosage form processing
- Novel measurement technologies
- Modelling and simulation
- PAT in bioactive production and downstream processing

### Posters and Podium Presentations

In addition to the podium lectures from recognised leaders in the field, PhD students are given the opportunity to present their latest advancements in PAT science. Participants are encouraged to submit abstracts for poster presentations, whilst selected students will be invited to give podium lectures alongside the keynote speakers.

### Abstract Submission

Abstracts should be submitted as email attachment in Word format to [secretariat@eufeps.org](mailto:secretariat@eufeps.org) by **March 15, 2010**.

The abstract, up to one page A4, should be typed single-spaced (12 pt Times Roman font or equivalent, 2.5 cm margins, page size A4) and should include the title, authors, their affiliations and addresses. Please indicate which EuPAT4 session topic best suits the abstract.

The selection of oral presentations and poster presentations will be based on the review of the up to 1-page abstracts (incl. figures) by the Scientific & Planning Committee.

## EuPAT4 Preliminary Program

<b>Wednesday, May 5, 2010, 09:30-17:30</b>
Welcome, Introduction and Opening Remarks
<b>Session: PAT in bioactive production and downstream processing</b>
Near-Infrared as a Biotech PAT/QbD Tool <i>Dr Emil Ciurczak</i> , Cadrai Technology Group, New York, NY, USA
Process Control of the Freeze-drying Process of a Protein Formulation <i>Dr Thomas De Beer</i> , Ghent University, Ghent, Belgium
Quality by Design for Freeze-Drying of Biopharmaceuticals Using Advanced Process Analytical Technology <i>Dr Henning Gieseler</i> , University of Erlangen, Germany
A Roller-Coaster Ride towards In-Line Measurement of Protein Aggregates <i>Prof. Robert T. Forbes</i> , University of Bradford, UK
<b>Selected oral contributions</b>
<b>Session: Modelling and simulation</b>
Mechanistic Modelling and Mechanistic Sensors - Towards the Ultimate Understanding in Multiphase Processing <i>Prof. Staffan Folestad</i> , AstraZeneca and Chalmers University of Technology, Mölndal and Göteborg, Sweden
Modelling Powder Processing: Compaction and Powder Flow <i>Dr Göran Frenning</i> , Uppsala University, Uppsala, Sweden
Exploratory Chemical Imaging Made Easy: Matched Spectral Filtering and Chemometrics <i>Dr Pekka Teppola</i> , VTT Optical Instrumentation, Finland
<b>Selected oral contributions</b>
<b>Reception at Kuopio City Hall 18:00</b>

<b>Thursday, May 6, 2010, 09:00-16:00</b>
Welcome and Opening of Day Two
<b>Session: PAT in solid dosage form processing</b>
Advanced Real-time Image-based Control of Pharmaceutical Granulation Processes <i>Prof. Niklas Sandler</i> , Åbo Akademi University, Turku, Finland
Non-invasive online measurements of coating thickness and density of individual tablets in real time during production scale processing using terahertz pulsed imaging <i>Dr Axel Zeitler</i> , University of Cambridge, UK
<b>Selected oral contributions</b>
<b>Session: Novel measurement technologies</b>
Regulatory Framework to Process Understanding – Mission: Impossible? <i>Prof. Jukka Rantanen</i> , University of Copenhagen, Denmark
Electrical tomography techniques as PAT tools <i>Dr Lasse Heikkinen</i> , University of Eastern Finland, Kuopio, Finland
<b>Selected oral contributions</b>
<b>Closing Remarks</b>

### EuPAT4 Scientific & Planning Committee

*Staffan Folestad*, Mölndal and Göteborg, Sweden (Chair)  
*Jukka Rantanen*, Copenhagen, Denmark  
*Thomas De Beer*, Ghent, Belgium  
*Buket Aksu*, Istanbul, Turkey  
*Joao Almeida Lopes*, Porto, Portugal  
*Marcel De Matas*, Bradford, United Kingdom  
*Jarkko Ketola*, Kuopio, Finland  
*Gerd Kleinschmidt*, Frankfurt, Germany  
*Hans H. Lindén*, Stockholm, Sweden  
*Wim Oostra*, Oss, The Netherlands  
*Jaakko Aaltonen*, Kuopio, Finland

### Important Dates

<b>Abstract submission Deadline</b>	<b>March 15, 2010</b>
<b>Early-bird Registration Deadline</b>	<b>March 15, 2010</b>

### Registration

For registration to EuPAT4 fill out and send the below interest form, which is also available on the EUFEPS Online ([www.eufeps.org](http://www.eufeps.org) – Current Meetings.) As received, information on payment procedures and deadlines will be provided as soon as possible. The registration is complete, when payment received.

To register to the Graduate school course see the information on the Graduate School website (<http://www.uku.fi/farmasia/tutkijakoulu/english/courses.shtml>)

### Additional Information

For more information and registration, see the EuPAT4 Website e.g. through EUFEPS Online ([www.eufeps.org](http://www.eufeps.org) – Current Meetings), or contact:

#### EUFEPS Meetings and Events

PO Box 1136, SE-11181 Stockholm, Sweden

Tel +46 8 7601050

Fax +46 8 4113217

Email [conferences@eufeps.org](mailto:conferences@eufeps.org)

<http://www.uku.fi/farmasia/tutkijakoulu/BioPAT2009.pdf>

### Accommodation

For accommodation, special rate rooms have been blocked at the Sokos Hotel Puijonsarvi, Minna Canthin katu 16, FI-70100 Kuopio, Finland (Tel +358 17 1922000; Fax +358 17 1922001; email: [sales.kuopio@sokoshotels.fi](mailto:sales.kuopio@sokoshotels.fi)). To make use of the reduced room rate, do not forget to indicate discount code "EuPAT".

### Location and Venue

Kuopio is a modern, developing centre of economic life in Eastern Finland, where the University plays an important role. It is also the home of acknowledged health and well-being expertise. Access is easy by air, on a connecting flight from Helsinki. The venue, Sokos Hotel Puijonsarvi attracts both business and leisure travellers, located right in the Centre of Kuopio ([www.sokoshotels.fi/en/hotels/kuopio/](http://www.sokoshotels.fi/en/hotels/kuopio/)).



Fill out and send this Interest Form, or send an Email indicating interest, to the EUFEPS Meetings and Events (address above).

Title	
Organisation	
First Name	
Family Name	
Address	
Postal address	
Country	
Tel	Fax
Email	

#### Fee Structure (plus VAT if applicable):

Industry	Member Type	Fee (€)
Industry	Early Member	€600
	Early Standard	€650
	Late Member	€700
	Late Standard	€850
Academy/ Regulatory	Early Member	€350
	Early Standard	€400
	Late Member	€450
	Late Standard	€500
Student	Early	€200
	Late	€300

Early payment before March 15, 2010.

- I am interested in joining.  
Send payment specifics.

### On the EuPAT Series

The EuPAT Conference Series is a unique forum for scientists and engineers, encouraging and promoting progress in science behind PAT and strengthening the interdisciplinary scientific discussion that bridges between the various fields underpinning PAT. The focus of it is on scientific progress underpinning Innovative Manufacturing Control and Quality by Design. New findings and results from scientific research and technology development are discussed in the four areas that constitute the cornerstones of sessions of the EuPAT Conferences; Process Informatics; Process Modelling and Understanding; Advanced Process Sensors; and PAT Based Control and Process Integration.

### EUFEPS Network on PAT

Powering Science Based Process Understanding and Quality-by-Design for Medicines, the Network is there to focus on PAT (Process Analytical Technology and underpinning sciences), create and maintain a unique and effective forum to encourage and improve collaboration, actively contribute to education and training, and to promote innovation in relevant sciences – all to power science based process understanding and Quality-by-Design for medicines. All scientists involved in PAT are more than welcome to become a member of the EUFEPS Network on PAT ([www.eufeps.org](http://www.eufeps.org) – Network and Networking).



Founded in 1991, the mission of EUFEPS is to advance excellence in the pharmaceutical sciences and innovative drug research, and to represent the interests of scientists engaged in drug research and development, drug regulation and drug policymaking. Currently, EUFEPS links 24 Member Societies in 24 European countries. It has, in addition, around 600 Individual Members.



Founded in 1980, ISPE has worldwide headquarters in Tampa, Florida; an Asia Pacific office in Singapore; a European office in Brussels, Belgium; and Affiliates and Chapters in 19 countries around the world.



UNIVERSITY OF  
EASTERN FINLAND

The University of Eastern Finland is an amalgamation of the University of Kuopio and the University of Joensuu, in joint and full operation from January 1, 2010. There are three campuses - in Kuopio, in Joensuu and in Savonlinna. It combines already strong areas of research and high quality education. It forms the basis for expanded multidisciplinary developments.



### EUFEPS Meetings and Events

PO Box 1136

SE-11181 Stockholm

Sweden