



FINAL PROGRAM  
OF  
ICPE 2011

September 2011

ICPE

**5<sup>th</sup>** International  
Congress on  
Pharmaceutical  
Engineering

September 29-30, 2011  
Graz, Austria  
[www.icpe-graz.org](http://www.icpe-graz.org)

## Location:

Graz University of Technology,  
"Neue Chemie"

Address: Stremayrgasse 9  
A-8010 Graz

Web: <http://www.tugraz.at>

## Registration:

Available online  
<http://www.icpe-graz.org>



## Final Programm of ICPE 2011

29.09.2011									
07:30	Registration								
08.45	Opening Session <sup>1</sup>								
09.30	<table border="1"> <tr> <td> <b>Pharmaceutical Manufacturing<sup>2</sup></b>  <b>Keynote: Marianthi Ierapetritou (Nawi Graz Lecturer)/Rutgers State University</b>  <b>Dynamic flowsheet simulation of integrated continuous pharmaceutical manufacturing</b> </td> <td> <b>Novel Formulation Engineering<sup>2</sup></b>  <b>Keynote: Hanns-Christian Mahler/F. Hoffmann-La Roche AG</b>  <b>Challenges in antibody formulation and product manufacturing</b> </td> </tr> <tr> <td>                     W. Liu, W.D. Wu, C. Selomulya, X. D. Chen:                      Spray Drying of Uniform Silica Microencapsulates: Implications for Controlled Release                 </td> <td>                     O. Glatter, Ch. Kulkarni, S. Salentinig, A. Chemelli:                      New Hierarchically Organized Systems for Delivery                 </td> </tr> <tr> <td>                     T. Freeman, B. Armstrong:                      The characterisation of bulk powder properties for pharmaceutical manufacture – the need for a multivariate approach                 </td> <td>                     K. Leithner, A. Vetter, J. Barthelmes, R. Erb, H., Oberacher, A. Bernkop-Schnürch:                      Nasal delivery of antisense oligonucleotides microparticles containing thiolated PCP and Carbopol 974P                 </td> </tr> </table>	<b>Pharmaceutical Manufacturing<sup>2</sup></b> <b>Keynote: Marianthi Ierapetritou (Nawi Graz Lecturer)/Rutgers State University</b> <b>Dynamic flowsheet simulation of integrated continuous pharmaceutical manufacturing</b>	<b>Novel Formulation Engineering<sup>2</sup></b> <b>Keynote: Hanns-Christian Mahler/F. Hoffmann-La Roche AG</b> <b>Challenges in antibody formulation and product manufacturing</b>	W. Liu, W.D. Wu, C. Selomulya, X. D. Chen: Spray Drying of Uniform Silica Microencapsulates: Implications for Controlled Release	O. Glatter, Ch. Kulkarni, S. Salentinig, A. Chemelli: New Hierarchically Organized Systems for Delivery	T. Freeman, B. Armstrong: The characterisation of bulk powder properties for pharmaceutical manufacture – the need for a multivariate approach	K. Leithner, A. Vetter, J. Barthelmes, R. Erb, H., Oberacher, A. Bernkop-Schnürch: Nasal delivery of antisense oligonucleotides microparticles containing thiolated PCP and Carbopol 974P		
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19:00	Reception City Hall								

## Location:

Graz University of Technology,  
"Neue Chemie"

## Registration:

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## Final Programm of ICPE 2011

30.09.2011		
08:30	Registration	
09:00	<b>Biopharmaceutical Processing<sup>2</sup></b>	<p>W. Liu, W.D. Wu, C. Selomulya, X. D. Chen: One-Pot Synthesis And Encapsulation Of Hydrophilic Drug In Uniform Microparticles For Controlled Release</p> <p>A. Bitterlich, C. Komoß, H. Bunjes, A. Kwade: Production, stabilization and morphology investigation of nanomilled drugs</p> <p>S. Schrank, A. Zimmer, B. Glasser, J. Khinast, E. Roblegg: Calcium Stearate Pellets: Drying Induced Variations in Dosage Form Properties</p> <p>M. Gulam, A. Ahuja, A. Javed, S. Baboota: Modified surface coated nanoemulsion bearing ropinirole to target brain for the better management of Parkinsonism: An Ex vivo evaluation</p> <p>M. Koziolok, A. Kandzi, G. Garbacz, W. Weitschies: Dissolution behaviour of quetiapine ER tablets under standard and bio-relevant test conditions</p>
	<p><b>Keynote: Satish Singh/Pfizer Inc.</b> <b>Protein Aggregation in the Frozen State. Impact of Processing and Storage Conditions and the Nature of Aggregates Formed</b></p> <p>A. Rollett, T. Reiter, B. Thallinger, A. Cavaco-Paulo, A. Loureiro, E. Nogueira, R. Silva, M. Cardinale, G.M. Guebitz: Visualization of Drug Delivery Microparticles using Confocal Laser Scanning Microscopy</p> <p>B. Teubl, G. Leitinger, E. Fröhlich, E. Roblegg: Development of an Alternative Buccal In-Vitro Model to study Cellular Interactions of Nanomaterials</p> <p>U. Roessl, J. Wiesbauer, S. Leitgeb, R. Birner-Gruenberger, B. Nidetzky: Non-Native Aggregation of rhG-CSF under Simulated Process Conditions</p>	
11:00	Coffe Break/Poster Session	
11:30	<p>S. Liebminger, L. Oberauner, M. Aichner, T. Cernava, R. Bauer, G. Berg: Biological Control of Clean Room Inhabitants</p> <p>M. H. Jazini, Ch. Herwig: Effects of substrate-related stress on recombinant protein production</p> <p>X.-Y. Wang, C. Fillafer, C. Pichl, R. Hofer-Warbinek, M. Wirth, F. Gabor: An acoustically-driven microfluidic platform for parallelized investigation of particle-cell interactions</p>	<p>J. Adolphs: Sub-visible Particulate Analysis in Protein Formulations with Micro-Flow Imaging</p> <p>O. Scheibelhofer, D. M. Koller, P. Kerschhaggl, J. Khinast: NIR-Imaging on Continuous Mixing Processes</p> <p>P. Kippax, A. Virden, G. Calvert, M. Ghadiri: Optimising the dispersion of pharmaceutical dry powders for particle size analysis</p> <p>G. Garbacz, W. Weitschies: Biorelevant dissolution test device for immediate release products</p>
12:50	Snack/Adjourn	

### 1 Speakers Opening Session:

- VR Univ.-Prof. Dr. **Irmtraud Fischer**, *Karl-Franzens-University of Graz*
- VR Univ.-Prof. Dipl.-Ing. Dr.techn. Dr. h.c. **Harald Kainz**, *Graz University of Technology*
- Univ.-Prof. Dr.phil.nat. **Andreas Zimmer**, *Karl-Franzens-University of Graz*
- Univ.-Prof. Dipl.-Ing. Dr.techn. **Johannes Khinast**, *Graz University of Technology*

### 2 Session Chairs:

**29.9.2011**

Pharmaceutical Manufacturing, 9.00-12.30  
**Dr. Heidrun Gruber-Wölfler**

Pharmaceutical Manufacturing, 13.30-17.00  
**Dr. Christine Voura**

Novel Formulation Engineering, 9.00-12.30  
**Dr. Eva Roblegg**

Regulatory Aspects, Qbd and PAT, 13.30-17.00  
**Dr. Siegfried Adam**

**30.9.2011**

Biopharmaceutical Processing, 9.00-12.30  
**Dr. Stefan Leitgeb**

Novel Formulation Engineering, 9.00-11.00  
**Dr. Carole Planchette**

Regulatory Aspects, Qbd and PAT, 11.30-12.30  
**Dr. Daniel Koller**

**Notice:** Each lecture has presentation time of **20 minutes**, including discussion.