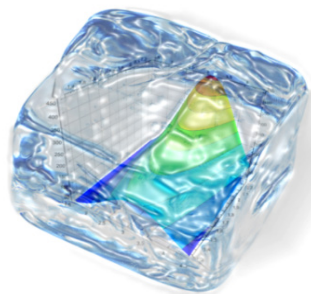


Registration

Please use the [registration form](#) from the website of the workshop.

Send this form back via e-mail or via fax +49 (0)351 4081-635 to the secretary.



Deadlines

01.02.2013	First announcement
28.03.2013	Submission of abstracts
19.04.2013	Abstract acceptance notification
03.05.2013	Second announcement
31.05.2013	Early bird registration & accommodation
25.08.2013	Last information

Organizing & Program Committee:

Dr. Ralf Herzog (Dresden, IIR A1)
Prof. Christoph Herwig (Vienna)
Prof. Maria Todorovic (Belgrade, IIR C1)
Dr. Oliver Spadiut (Vienna)
Dr. Jürgen Klier (Dresden)
DI Holger Reinsch (Dresden)
Dr. Gabriele Spörl (Dresden, IIR C1)

Contact address:

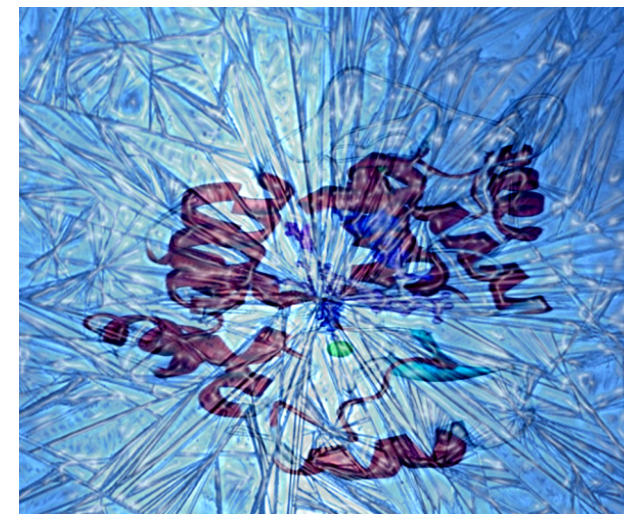
Secretary of the workshop
Dr. Gabriele Spörl
Telefon: +49 (0)351 4081-604
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Institut für Luft- und Kältetechnik
Gemeinnützige Gesellschaft mbH
Bertolt-Brecht-Allee 20, 01309 Dresden

For more details please look at the homepage of the workshop:
www.ilkdresden.de/IIR-cryobio-workshop

Conference venue:
Dorint Hotel, Grunaer Straße 14,
01069 Dresden, www.dorint.com/dresden

Arrival:
<http://www.dorint.com/en/location-directions-hotel-dresden>



IIR Commissions A1 and C1

First Announcement

IIR Workshop on Cryoprocessing of Biopharmaceuticals and Biomaterials

September, 04 – 05, 2013
Dresden, Germany



ILK Dresden





Objectives

Ladies and Gentlemen

The enormous progress in pharmaceuticals and biomaterial development correlates with new solutions for producing, storing and handling of bio-products along the production chain up to the end-user. Therefore freezing and cryoprocessing are getting more and more important as an essential production step in biotechnology.

Investigations are carried out to find novel approaches of the low temperature physics and cryogenics for the field of biopharmaceuticals, e.g. protein solutions and biomaterials.

The understanding of the freezing behaviour and the cold-induced biophysical effects is a key issue in R&D currently. Another challenge is to find out how the effects of low temperatures can be used in industry for product improvements.

This first special “cryobio” IIR Workshop provides an interdisciplinary scientific platform for a dialog and exchange of experiences between R&D-institutes and industry.

The ILK Dresden and the Vienna University of Technology as the initiators and organizers of the workshop would like to invite all of you who have interest in that field to come to Dresden, Germany.

Christoph Herwig
Vienna University of Technology

Ralf Herzog
ILK Dresden

Topics

Product freezing in pharmacy and biotechnology

- ❖ Understanding of protein damage caused by cold application
- ❖ Process limitations and impact factors on product stability
- ❖ Process validation - Analytics and monitoring in product freezing
- ❖ Industrial freezing solutions: Large scale and multi-product plant
- ❖ Targeted optimization: Simulation of process and product loss

Cryogenic solutions in biomaterial development and application

- ❖ Cryogenic approaches in 3D biomaterial design
- ❖ Industrial solutions in biopolymer processing
- ❖ Regulatory aspects on biomaterials for medicine and diagnostics
- ❖ Application of 3D biomaterials in cell culture, medicine and diagnostics
- ❖ Cryopreservation strategies for cellularized materials and artificial tissue

Submission of abstracts

28.03.2013 Submission of abstracts

Details for the abstract submission see [abstract template](#)

Key contributions

- | | |
|----------------------------------|--|
| A. Marchler
Zeta GmbH | Protein Stability improved by Freeze Process Understanding |
| R. Paul
Novartis
Pharma AG | Freeze-Thaw feasibility of fully formulated drug-substance storage in 20L bottles: An alternative approach to bags |
| M. Gelinsky
TU Dresden | Requirements for porous 3D scaffolds concerning tissue engineering applications |

Conference language

English, no translation will be provided.

Fees

<i>Participants from</i>	<i>before May, 31st, 2013</i>	<i>until Sept., 05th, 2013</i>
<i>University/institute</i>	80 €	100 €
<i>Industry</i>	180 €	220 €
<i>Students</i>	40 €	50 €

Please get in contact with us as soon as possible if you want to present your results.

Sponsors are welcome.