

Organization Registration Fees

Organization

TU Braunschweig
Institut für Partikeltechnik

Denise Steiner: +49 - 531/391 - 9603
Frederik Flach: +49 - 531/391 - 9605
Email: hsk-ipat@tu-braunschweig.de

Participation Conditions

- Registration is possible until 12th September 2014
- Reduced prices for early registration (until 15th July 2014) and employees of university
- Minimum number of participants for each course: 10 persons
- Cancellation (email or fax):
 - › until 12th September: a service fee of 50 € has to be paid
 - › later cancellation: 80 % of participation fee will be invoiced but the course documents will be send to you

Inhouse Seminar:

As a special offer, we provide a seminar about stirred media mills in your company related to your applications and requirements. If you are interested in an inhouse seminar, please contact us for further information. The Seminar can be held in English or German.



Seminar

Fine Grinding and Dispersing

Basic Course and Workshop on Stirred Media Mills

Nano Course on Grinding and Dispersing of Nano- particles

06. - 09. October 2014
Braunschweig

In co-operation with:
GVT Forschungs-Gesellschaft
Verfahrens-Technik e.V.

Participation fee

The participation fee includes all course materials, refreshments during the day as well as one dinner (only basic & nano course):

	Regular Price*	reduced A*	reduced B*
Basic Course	840 €	740 €	540 €
Nano Course	740 €	640 €	440 €
Workshop	390 €	330 €	230 €

A: early registration
B: member of university
*: members of GVT - 60 €

For registration as well as further and current information please visit our homepage:

www.ipat.tu-bs.de/en/veranstaltungen/isgdisgd

Payment

Mrs. Hipp
GVT-Forschungs-Gesellschaft-
Verfahrenstechnik e.V.
Phone: +49 (0)69 75 64 - 118
E-Mail: gvt-hochschulkurse@gvt.org

© Technische Universität Braunschweig
Institut für Partikeltechnik
Volkmaroder Str. 5
D - 38104 Braunschweig
Telefon +49 531 391-9611
Telefax +49 531 391-9633
ipat@tu-braunschweig.de
www.ipat.tu-braunschweig.de

Basic Course

on Stirred Media Mills

06. and 07. October 2014

Grinding and dispersing with stirred media mills represent important process steps in many branches of industry. The knowledge of the physical phenomena inside the mill and the industrial applications have improved significantly in the last 10 years.

The course gives an overview about the physical phenomena of grinding and dispersing in stirred media mills, and shows how this knowledge can be used for the design and optimization of grinding and dispersing processes.

Moreover, the effect of important operating parameters on the grinding and dispersing result as well as the transport behaviour and operating mode of stirred media mills are presented. Last but not least, design aspects of stirred media mills as well as questions of scale-up are addressed.

Themes:

- introduction and different mill designs
- methods of particle size analysis
- models for describing grinding and dispersing processes
- influence of different parameters on the grinding and dispersing result
- transport behaviour and operation mode
- operation of stirred media mills
- scale-up

Workshop

on Stirred Media Mills

08. October 2014

The workshop contains a short repetition of important facts of the basic course. Based on that and consulted by the experience of Prof. Kwade a procedure to determine the cost-effective operation parameters of the milling process will be designed. By means of different examples several milling processes are analyzed, discussed and optimized during the workshop.

Additionally a method for the scale-up of stirred media mills will be presented. On this basis a laboratory mill process will be transferred into production scale including calculation of new operating parameters.

There is also the possibility to discuss questions about your own processes including the determination of individual operating parameters.

Themes:

- determination of important milling parameters
- scale-up from lab to production mill based on an example
- discussion of individual challenges

Basic Course and Workshop will be lectured by:

- Prof. Dr.-Ing. A. Kwade
- Dr.-Ing. I. Kampen
- Dr.-Ing. S. Breitung-Faes

Grinding and Dispersing of Nanoparticles

08. and 09. October 2014

In the last years nano-particles have become more important in technology and in many practical applications. Relevant examples are pharmaceutical ingredients for better bioavailability, manufacturing of suspensions for coatings and nanocomposites as well as production of CMP-suspensions for the semiconductor industry.

Consequently, applications of nanotechnology have an increasing influence on research and development concerning stirred media mills.

This advanced course focuses on nano-particle production via top-down-techniques and the associated questions and challenges regarding stabilisation of the suspension, product contamination and targeted adjustment of product properties.

Themes:

- product requirements
- measuring technology for nanoparticles
- particle interactions and stabilization
- grinding and dispersing of nanoparticles

With lectures by:

- Prof. Dr. G. Garnweitner
- Dr.-Ing. C. Schilde
- Dr.-Ing. S. Breitung-Faes
- Dr.-Ing. S. Mende (Netzsch-Feinmahltechnik GmbH) and others