Course information
Duration of the course: 2 or 3 days
Number of participants: max. 12

Course fee includes
- 2 or 3 nights lodging with breakfast
- Catering during the event
- Lunch / Dinner
- Seminar documents

Seminar fees
Theory 1,000 € plus VAT
Practice 1,000 € plus VAT
Package price 1,900 € plus VAT

Organization
Mrs. Sindy Tannert-Koch will be happy to advise you on all questions relating to organization
Phone: +49 9287 797 271
Fax: +49 9287 797 149
Email: sindy.tannert-koch@netzsch.com

Our special service for you
We also offer in-house user or service seminars according to your specifications. If you are interested, please do not hesitate to contact us.

Seminar registration
please check the appropriate box
- I would like to register for the THEORETICAL SESSION of the user seminar „Analysis and optimization of wet grinding processes - from laboratory to production“ at a price of 1,000 € plus VAT
  - 20.-21.04.2021
  - 16.-17.11.2021
- I would like to register for the PRACTICAL SESSION of the user seminar „Analysis and optimization of wet grinding processes - from laboratory to production“ at a price of 1,000 € plus VAT
  - 21.-22.04.2021
  - 17.-18.11.2021
- I would like to register for the THEORETICAL & PRACTICAL SESSIONS of the Application Seminar at a package price of 1,900 € plus VAT
  - 20.-22.04.2021
  - 16.-18.11.2021

Registration
please complete legibly in block letters
Company: ____________________________
Address: ____________________________
First & last name: ____________________________
Phone: ____________________________
Email: ____________________________
Date __________ Signature __________

Kindly return your filled-in registration form by fax to +49 9287 797 149 or register online at www.netzsch.com/seminar

Business Unit Grinding & Dispersing –
The World’s Leading Grinding Technology

The NETZSCH Group is an owner-managed, international technology company with headquarters in Germany. The Business Units Analyzing & Testing, Grinding & Dispersing and Pumps & Systems represent customized solutions at the highest level. More than 3,700 employees in 36 countries and a worldwide sales and service network ensure customer proximity and competent service.

Our performance standards are high. We promise our customers Proven Excellence – exceptional performance in everything we do, proven time and again since 1873.

Proven Excellence.

Application Seminar
THEORY | Analysis and Optimization of Wet Grinding Processes – from Laboratory to Production
PRACTICAL TRAINING | Implementation of Laboratory Tests – Planning, Performance, Analysis, Documentation

NETZSCH-Feinmahltechnik GmbH
Sedanstraße 70 | D-95100 Selb
Phone: +49 9287 797-0 | Fax: +49 9287 797 149
info.nft@netzsch.com | www.netzsch.com
**NETZSCH Application Seminar**

**THEORY | Analysis and Optimization of Wet Grinding Processes – from Laboratory to Production Scale**

User seminar with the goal to impart the theoretical background and the function of agitator bead mills. The effect of important operating parameters on the grinding process will be discussed and various procedures will be explained. Practical tests on the LabStar laboratory mill as well as on a production size machine will be used to demonstrate the effects discussed. Afterwards we will address the topics of particle size characterization and stabilization of suspensions (dispersion of ultrafine particles into the nanometer range).

**Seminar Content**
- Introduction to the NETZSCH Business Unit Grinding & Dispensing
- Characterization of Successful Comminution – Terms and Definition
- Overview of Grinding-media-free Dispersion Systems – Mixing, Wetting and Dispersion
- Overview of NETZSCH Grinding Systems, Agitator Bead Mills
- Effect of various Process Parameters
  - Model of the Stress Energy and the Stress Rate
  - Effect of the Dwell Time Distribution
  - Selection of the Grinding System and the mode of operation
- Grinding Media Selection and Scale-Up
  - Calculation – from Laboratory to Production Scale
- Tour of Assembly area
- Summary and Discussion

Optional (can be arranged after consultation):
- Limits of Wet Grinding, True Comminution and Gentle Dispersion

**Target group**
Those with positions of responsibility in the areas of:
- Production
- Process technology
- Laboratory
- Research & Development

We would like to invite you to a Welcome Dinner at 7:00 pm on the evening before the seminar begins.

On the first day of the seminar, we will pick you up from your hotel at 8:00 a.m. The seminar will begin at 8:30 a.m. at NETZSCH-Feinmahltechnik GmbH.

We will provide all of the seminar materials along with detailed information regarding the program.

We look forward to winding down the first day of the seminar with you with some good food in a relaxed atmosphere. Of course, snacks and lunch will be provided during the seminar.

**PRACTICAL TRAINING | Implementation of laboratory tests – planning, performance, analysis, documentation**

After the user seminar, the theoretical knowledge acquired is now applied directly to our machines. In working groups with a maximum of 3 participants each, various tasks are carried out on different machines. Here, the test materials undergo either true comminution or dispersion. During this workshop, advisors are available to provide support, but these are hands-on tasks for the participants.

**Prerequisites**
You need the theoretical basics from the user seminar. It makes no difference whether you are currently participating in the user seminar or have already attended a previous event.

**Tasks**
- Carry out a complete laboratory test including set-up and preparation of the test equipment
- Recording of important characteristic curves
- Sampling and sample preparation for analysis of the test results
- Documentation and discussion of the results including error analysis
  - inklusive Fehlerbetrachtung

**On the day before the practical training, we will pick you up from your hotel at 8:00 a.m. We will start at 8:30 a.m. at the NETZSCH-Feinmahltechnik GmbH Technical Center. At the end of the workshop we will have lunch together. In a comfortable atmosphere and with good food, we will discuss further questions, ideas or projects. A leisurely departure is planned for the next morning.**

**On the day before the practical training, we will invite you to join us for lunch in the NETZSCH canteen at 12:30 p.m. Afterwards, we will visit the Assembly Department and the Technical Center at NETZSCH-Feinmahltechnik GmbH in Selb. You will then receive all the documents and information about how the workshop will proceed and the working groups will be assigned.

Finally, we look forward to bringing the day to an end with you with some good food in a relaxed atmosphere. Of course, you will also be well provided for throughout the day.