



Dear Reader,

long-standing loyalty has become rare in the today's, fast-moving society. Hence, keeping loyalty about many years to a company is nearly a rarity. Good and above all loyal employees are an important building block of Infastaub. They are a clue for sustainable economic and operational structures, they show the solidarity of the people to Infastaub and, besides, are a visible expression of our harmonious and constructive work climate.

18 employees already celebrated their 25th anniversary at Infastaub. They come up to almost 500 years of experience. An impressive number, that expresses one of the most important secrets of success of our company.

The best asset of a company are employees, who use their for many years and decades collected knowledge for the benefit of a company and pass it to others.

Further news, which do not fulfil us less with pride may not be absent in the new issue of Infa-Aktuell.

I wish you a lot of fun while reading.

Cordially

Berthold Geppert



## Infa-Inside

### This was Powtech 2017



„Powtech 2017 has impressed, affected and brought together the best brains of the industry“ is the résumé of Beate Fischer, event manager Powtech at Nürnberg Messe. Infastaub follows this judgement.

### Great happiness

The „Apple Watch“ drawing among all participants took place at the last fair day of Powtech 2017. The drawing was broadcasted live on Facebook.

Out of the fan crowd, to participate in the Facebook raffle, Mirja Deppe was identified as winner.

We congratulate again and wish a lot of fun with the Apple Watch.

Powtech 2017 was more international than ever: 835 exhibitors from 29 countries were there and Infastaub in hall 4 right in the middle.

The Infastaub stand gleamed in a new, clear design. Large-sized graphics of 3D CAD filter units and a new illumination concept realized a bright, welcoming appearance. For the first time we had a digital Carrera race course on board. It made the fair visitors' eyes shining and awakened the play instinct. Daily three bottles of champagne were awarded to the daily winners.

All visitors and Infastaub staff agreed at the end of the fair: The Carrera race course provided a lot of fun.

We thank all visitors, who contributed to the success of the fair and look forward to 2019.

### Save the Date

The next Powtech takes place from April 9th to April 11th, 2019.



## In the triad of the process Our cover story in the „Chemie Technik“

There is no definition for demanding dusts. Instead, the product properties differ, e.g. they are cohesive, abrasive, hygroscopic, explosive, or are classified by particle size flow properties, bulk weight and similar. In addition, especially in chemical industry and pharmaceutical applications, there is often the specification, that above all operators need to be protected. With some substances the user should not get in contact, not even with smallest amounts of dust. The permitted dust content in air descends to some nanogrammes. Due to the tasks and compositions of dusts, filter units that combine Hepa-filtration and containment in handling are used for the chemical and pharmaceutical industry. Since many of these processes work with flammable dusts and partly also with solvents, explosion protection is the third important topic for filter units of chemical and pharmaceutical processes.

### Industry's special demands

Filter systems for the pharmaceutical industry should not have any constructive dead spaces where product residues can accumulate in spite of thorough cleaning. Interior welding seams in contact with the product or screw connections of single housing components should

be designed in such a way that no deposits can occur.

Welding seams within the raw gas area must be ground smooth for an easy and safe inner and exterior cleaning. A safe fixation of the filter cassettes must guarantee a continuously reliable sealing between raw and clean gas area. This must be guaranteed also in case of power failure or drop of compressed air.

### Solution for Hepa filtration, containment and explosion protection



The kinds of the processes and dusts influence the choice of the filter medium. Many dedusting industries of the above mentioned processes need particulate air filter cassettes in Hepa quality H13 for the first filter stage. Up to ULPA quality U15 is used for the second filter stage. The separation efficiency e. g. for Hepa quality H13 is 99.95%,



the penetration is 0.05 %. The filter cassettes should be connected to the filter unit via a safe earthing mechanism, so that the safe derivation of electric charge is possible. In case of hybride mixtures within the filter unit, there might be the necessity of constructive explosion protection. Handling of dust disposal of toxic dusts has to be made via a dust collecting bin with safe change equipment or, alternatively, with an endless liner-system. In these cases a safe-change equipment for change of filter cassettes is also necessary. A visual control of filter cleaning after the first filter stage enables additional safety.

### Decider facts for operators

- Hardly any filter system is the same as another. The choice is depending on particle properties, production process, spatial circumstances, aspects of explosion protection and many other demands. It is always the result of requirement specifications coordinated together with the operator and an inventory.
- This allows a combination of operational safety, system availability, protection of staff and environment, efficiency of product recovery and low life-cycle costs.

Your find the entire story here  
<http://www.chemietechnik.de/anspruchsvolle-staube-sicherfiltern-zu-finden>



## Central exhaust systems

Central dust exhaust systems are used when large quantities of product spillages occur. This often happens in industries that work with bulk solids and e. g. where a numerous number of elevator and conveyor belt transition points are installed.



Using a central dust exhaust system with a widespread pipe system and many sockets, the dust spilled on the floor can be sucked in from every spot. A flexible suction hose is plugged in the socket of the suction pipe if required. The dust is aspirated by suction pressure that is generated by a vacuum pump and then guided to the filter unit. A big part of the dust lands in the filter's hopper. The fine dust fraction is separated on the filter media and dropped into the hopper by an efficient and full automatically

cleaning with pressurized air. The dust disposal is usually made by rotary valves, whereas the dust can be collected centrally and returned to the production process.

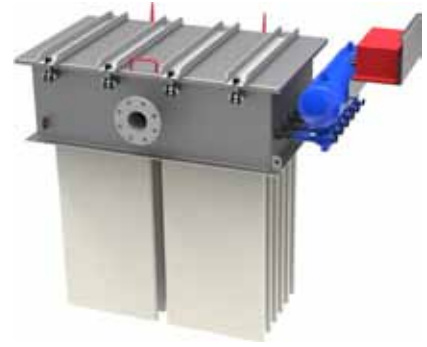
### Project for potash

Potash was generated several hundred million years ago, but not discovered until 1856. It proved very fast to be a powerful fertilizer. The second largest volume worldwide is located in the Russian region Perm. There, the Russian group EuroChem exploits with a greenfield project an extensive deposit and production site. The exploitation and processing facility will be commissioned end of 2017.

Part of the capital expenditure are nine pocket filters of the series Infa-Jet AJN. The filter units, reinforced for suction pressure down to 0.5 bar, are designed for a dust load  $< 20 \text{ g/m}^3$  and a volume flow of  $3,000 \text{ m}^3/\text{h}$  each. Delivery is carried out by Infastaub RUS.

### Project for a steel works

Kazakhstan has a fabulous wealth of natural resources and is also worldwide well up mining. A con-



centration of resources is in the region Aktobe. The most important company for mining of chrome ore including processing is the company Kaschrom, a subsidiary of the Kazakh Company ERG for natural resources. The first ton of ferrous alloy was produced there in 1943.

Three pocket filters of series Infa-Jet AJN are the heart of a new central exhaust system. The order was also delivered by Infastaub RUS. The filter units are designated for exterior installation with temperature ranges from  $-40$  to  $+40 \text{ }^\circ\text{C}$ . The cleaning unit of the filter is therefore built in a heated and thermally insulated protective housing. This way a flawless operating is also guaranteed during winter time.

## Advent calendar with many prizes



For our Facebook fans we have created a digital advent calendar

for the pre-Christmas period. There, you can prove your knowledge.

From December 1st to December 24th all participants of the advent calendar can win great prizes. Every day a question about Infastaub and christmas time is asked and needs to be answered. Some great prizes wait for correct answers.

In order to take part at the advent calendar, registered users need to follow the link. An overview with all 24 doors appears and the correct door for the day needs to be found. After clicking on it, a question is asked to the user. When the participant answers correctly, he takes part in the competition of daily prizes automatically.

We wish lots of fun with the advent calendar and a pleasant festive season.

## Running for a good purpose



Once a year more than 2.000 runners and walkers start in Bad Homburg in order to run for a good purpose. Three Euro of each start fee are given as donation for the Leberrecht foundation for handicapped and socially disadvantaged children, teenagers and their families. It was the fifth event of its kind.

Almost 1.500 runners and 700 wal-

kers made the 5 km long distance with a lot of energy and enthusiasm.

Five employees of Infastaub who are keen on sports, participated again. Colleagues encouraged the runners enthusiastically. Afterwards they celebrated together.

Klaus Schott, our Marathon experienced colleague of the order management department, finished in a great time of 20:18 minutes and achieved the 52nd rank. The team scoring (time of three runners) amounted to 1:08:28. That means rank 24 out of 440 teams. Congratulations to all runners. We are proud of you.

Three Infastaub employees also

started at the Muddy Angel Run 2017. „Do good and look dirty with it“ is the motto of the run. The participants and Muddy Angel initiatives want to combine elucidation against breast cancer, fun and team spirit.

A 5 km long distance, 12 funny obstacles and of course a lot of mud waited for the participants. Respect to this achievement!



## What is actually doing ...?

### Alexander Pauls Construct



Since 2014 Alexander Pauls is back at Infastaub. From mid 2004 to the end of 2006 the 33 year old was already employed in the workshop. Now he has his position in the construction department after completing a training as industrial mechanic and subsequent training as „State-certified Mechanical Engineer“.

**I assume that the mechanical engineer training was not easy besides your job.**

Yes. This wasn't always easy. Determination, ambition and perseve-

rance are requirements to fulfill the technical training in addition to working. A fulltime job and also going to school every evening was sometimes demanding. But it was worth it. I could return to Infastaub.

It's a great benefit for me that I also know the practical side because of my prior work in the workshop. I even returned back to Infastaub during my engineer training. Since then I have a job in the construction of Infastaub.

### What is your duty?

Of course, I don't work anymore with a drawing board. The design documents are created with the help of a CAD program. With this software I create order-related drawings of components, modules and our filter units.

Furthermore I have a leading role in our project „AJL“. This filter series will be relaunched. Amongst others it will be much easier to assemble. But I have nothing further to say at this point of time.

### You also have a new family project.

Yes. Ten weeks ago my daughter has been born. For this I took parental leave for four weeks. I wanted to support my wife after the childbirth and take time off for my daughter during the first weeks.

### Three words that describe you:

Competent, polite, helpful.

### If you could make a wish:

Then I would wish many wishes.