

68. EXPERT FORUM / PRACTICAL SEMINAR

EXPLOSION PROTECTION, ATEX & POWDER TRANSFER / HANDLING

WITH DR. ING. CARSTEN BLUM (DR BLUM ELECTROSTATICS)

THEORY- AND PRACTICAL-SEMINAR (1½ DAYS)

Date: Tuesday / Wednesday, October 7th – 8th, 2025

Place: Soest / Germany

After many sessions in German language, we have taken the unbroken interest in this forum as an opportunity to organise it additionally as an international event in English.

The dynamic synthesis of theory and practice with experiments and demonstrations has already interested parties to participate again, also in order to keep up to date with the latest explosion protection knowledge and regulations.

The number of participants is limited. We ask for early registration as this seminar is regularly fully booked.

In addition to the general topics of explosion protection and European regulations (ATEX), the 'mysterious' field of electrostatics in particular is dealt with in detail, both theoretically and practically. Benefit from the expertise of our guest speaker **Dr. Carsten Blum**, one of the leading experts in this field.

The explosion protection findings can be directly applied, especially for a safe powder transfer, by the use of Vacuum Conveying and other powder handling solutions.





„... the synthesis of powder and granule transport with explosion protection issues also helped us to analyse possible hazards in other production areas. I found the seminar very interesting. It is also suitable for repeated participation, for refreshing and to keep up to date ...“

Dr. Joachim Kochta, Plant- & Process Safety, Symrise Fragrances & Flavors

Extract from the contents:

- ▶ Definitions, legal foundations and basic principles
- ▶ Gas explosions and Dust explosions
- ▶ Safety-related parameters and zone rating
- ▶ Potential ignition sources
- ▶ Legal framework
- ▶ Plant/operating manager obligations according to 1999/92/EG (ATEX 153)
- ▶ Equipment manufacturer obligations according to 2014/34/EU (ATEX 114)
- ▶ Extracts from TRBS 2153 and TRGS 727
- ▶ In depth analysis and presentation of electrostatics as an ignition source
- ▶ What differs Vacuum Conveying from conventional, mechanical conveying systems?
- ▶ Which kind of Vacuum Conveyors can be used in EX-zones?
- ▶ Which kind of conveying hoses can be used for which EX-zones?
- ▶ Can Vacuum Conveyors be used for powders with a low MIE (Minimum Ignition Energy)?
- ▶ What if hybrid mixtures (gas and dust) occur?
- ▶ When should the conveying take place under inert conditions?
- ▶ What if powder needs to be transferred into a gas EX-zone 0?

‘ ... I really enjoyed the seminar ... ‘

Ralf Degener, Dipl.-Ing. M.Sc., Momentive Specialty Chemicals

We are also looking forward to your questions, experiences and contributions from your personal work environment, since we always plan with enough time for group discussions and/or individual problem analysis.

This practical seminar is therefore aimed at production managers, process engineers, plant engineers, planners, plant foremen and users from all branches of industry, including plant construction and EPC (Engineering, Procurement, Commissioning). You are welcome to forward this invitation to your colleagues.

We look forward to welcoming you to our development and production site in Soest/Germany.

Thomas Ramme
Dipl.-Ing. B.Eng.(Hons.)
Director Technical Sales



Day One	11:30 - 12:00	Registration and reception at Volkmann in Soest, coffee & tea, snacks	
	12:00 - 12:15	Start of seminar: Introduction	
	12:15 - 14:00	I. Theoretical part of the seminar: EX-Part 1: „Explosion Protection and ATEX - basics“ Definitions, legal foundations and basic principles, Gas explosions and Dust explosions, Safety-related parameters and zone rating, potential ignition sources, Legal framework Speaker: Dr.-Ing. Carsten Blum, DR BLUM ELECTROSTATICS	
	14:00 - 14:15	Coffee break and discussion	
	14:15 - 14:30	First practical demonstrations approaching Electrostatics	
	14:30 - 15:45	Continuation EX-Part 1	
	15:45 - 17:00	Pneumatic Vacuum Conveying of solids, Bulk material transport, comparison with other conveying systems, functional principle, main components, ignition source-free vacuum generation, application examples Speaker: Dipl.-Ing. B.Eng.(Hons.) Thomas Ramme, Volkmann GmbH	
	18:00	„Get Together“: (06:00 pm) <i>We invite you to a city walk through the historical town center of Soest followed by dinner invitation at the brew-house Zwiebel</i>	
	Day Two	09:00 - 10:15	EX-Part 2: „Electrostatics and Explosion Protection“ Electrostatic charging mechanism, forms of electrostatic dischargings, practical demonstrations, protective measurements Speaker: Dr.-Ing. Carsten Blum
		10:15 - 10:30	Coffee break and discussion
10:30 - 11:45		Continuation EX-Part 2	
11:45 - 13:00		Vacuum Conveying in Explosive Areas (Powder- & Gas- EX zones) Application of the ATEX regulations for pneumatic Vacuum Conveying, ignition source analysis, conveying of combustible powders, certifications, requirements for conveying hoses, use in gas-EX areas (INEX) Speaker: Thomas Ramme	
13:00 - 13:45		Lunch break	
14:30 - ca. 16:45		II. Practical demonstrations (in smaller groups) a. test & trial center: Further practical electrostatic demonstrations b. show-room: further powder handling demonstrations c. manufacturing: production processes, finished systems	
around 16:30		Open end with final and individual discussions within the small groups	

„...this practical seminar combines Explosion Protection and ATEX with pneumatic powder transport and thus helps to find solutions for our bulk solids processing sector...“

Erich Mehring, Production Manager, James Robinson, Speciality Chemicals



APPLICATION / REGISTRATION

PLEASE RETURN BY FAX OR SCAN/E-MAIL



VOLKMANN

IDEAS AHEAD

68. EXPERT FORUM:

EXPLOSION PROTECTION, ATEX & POWDER TRANSFER / HANDLING

Tuesday / Wednesday, October 7th - 8th, 2025 (Soest / Germany)

Unfortunately I cannot come. Please keep me informed about future events.

The handling of powders and bulk materials is not / no longer part of my field of activity.
Please remove me from your mailing list.

Venue: VOLKMANN GmbH, Schloitweg 17, D-59494 Soest / Germany

Costs: EUR 1,185.-- plus VAT (if applicable), incl. drinks, lunch, Get-together and Documents Folder for participants.
Payable before the event takes place after receipt of invoice.

Participant:

Company:

Phone/Fax:

E-Mail:

.....
Date, Signature, Stamp

REGISTRATION please by fax (++ 49 (0) 29 21 / 96 04 - 900) or e-mail (mail@volkmann.info)

Limited number of participants for optimum learning success and exchange of experience. Please register in good time.

Once we have received your registration, you will receive a confirmation of registration, invoice (payable before the start of the seminar), directions and a list of hotels. Of course we can help you with the room reservation. For cancellations up to 7 days before the start of the event, we charge a processing fee of EUR 200.-- plus VAT(if applicable). After this deadline, the full participation fee must be paid in accordance with the invoice. A substitute participant may be named. If an event has to be cancelled for unforeseeable reasons, the participant will be notified immediately. In this case, there is only an obligation to refund the participation fee already paid. Optionally, an alternative date may be proposed.

Note: Photos will be taken during the event for documentation and marketing purposes.

Organiser: VOLKMANN GmbH, Schloitweg 17, D-59494 Soest, Tel.: ++ 49 (0) 29 21 / 96 04 - 0, E-Mail: mail@volkmann.info

