

cleanzone

**International trade fair and
congress for cleanroom technology**

8 + 9. 11. 2016

Frankfurt am Main

**Includes the
congress
programme**



messe frankfurt

Welcome to the world of
cleanroom technology.

Everything under one roof.
Everything at a glance.

Knowledge platform, gathering of experts, forum for innovation: Cleanzone – the trade fair and congress for cleanroom technology – is all of this and more. Yet again this year, you will be able to find all of the important innovations and lots of networking opportunities at Messe Frankfurt from 8 to 9 November 2016.

The trade fair

Whether it be the latest technology trends or changes to the regulatory framework, the interdisciplinary Cleanzone platform will bring you up to date on the latest developments in this complex industry. You will not want to miss the wide-ranging supporting programme, as it offers ample opportunities to find out about pioneering technologies and new products, as well as answers to practical questions concerning your cleanroom production.



A who's who of the cleanroom industry in one place.

Exhibitors and product groups

International companies showcase their innovations at Cleanzone. They can offer the solutions you need to meet demanding current and future requirements of working under cleanroom conditions.

- ⇒ Cleanroom planning
- ⇒ Cleanroom construction and operation/
construction components
- ⇒ Measurement systems
- ⇒ Consumables and clothing
- ⇒ Services
- ⇒ Training/research & development
- ⇒ Documentation

The event is targeted at trade visitors from the fields of micro-technology and life sciences, including the following industries in particular:

Life sciences

- ⇒ Pharmaceuticals
- ⇒ Cosmetics
- ⇒ Food
- ⇒ Pharmacies
- ⇒ Biotechnology
- ⇒ Packaging solutions
- ⇒ Medical technology

Micro-technology

- ⇒ Semiconductor production
- ⇒ Optics and laser technology
- ⇒ Precision engineering
- ⇒ Electronics
- ⇒ Aerospace technology
- ⇒ Automotive
- ⇒ Surface technology
- ⇒ Plastics technology
- ⇒ Microelectronics and
micro-system technology

Pure knowledge. Straight from the source.

The congress

This year's trade fair will once again be accompanied by the informative and practical Cleanzone Congress, which will be offering you a high-calibre programme in the "Europa" conference room (Hall 4.0 Foyer).

The scientific presentations and international roster of speakers have been chosen by a panel of respected experts. Visit Cleanzone Congress and update your expertise with the excellent information on offer.

You will find the very latest information on the full programme online at:
[cleanzone.messefrankfurt.com/
congress](http://cleanzone.messefrankfurt.com/congress)



Congress/Module 1

Back to basics

8 November 2016, 10:00 – 12:30

10:00 – 10:25 **Standards and guidelines on Cleanroom Technology – an overview**
Dr. Lothar Gail
GMP and cleanroom technology consultant

10:30 – 10:55 **Orientation and initial validation: Floors, walls, ceilings**
Frans Saurwalt,
Kropman Contamination Control

11:00 – 11:25 **Logistics – in the cleanroom value chain. Processes and data, information and material flows**
Lukas Schober, Kalucon GmbH

11:30 – 11:55 **Requirements for cleanroom behaviour**
Frank Duvernell, profi-con GmbH

12:00 – 12:30 **The perfect cleanroom cloth – a difficult choice**
Stefan Haupt
CLEAR & CLEAN Werk für Reintechnik GmbH

Congress/Module 2

Planning, layout, construction

8 November 2016, 14:00 – 16:30

14:00 – 14:35 **From the initial concept to the finished cleanroom: Key factors for professional planning management**
Florian Dittel, Dittel Engineering

14:40 – 15:15 **Requirements for the design and construction of cleanrooms**
Conor Murray, 3dimension

15:20 – 15:55 **Industry 4.0: Smart Cleanroom – Smart Liability?**
Prof. Dr. Hans-Hermann Dirksen
Liebenstein Law

16:00 – 16:30 **What changes will draft standard E DIN 1946-4:2016-06 “Ventilation systems in buildings and rooms in healthcare facilities” entail for hospitals?**
Ralph Langholz, Mann + Hummel Vokes Air



Congress/Module 3

Qualification

9 November 2016, 9:30 – 12:00

- 9:30 – 10:05 **Dealing proactively with crises in planning and after completion**
Rino Woyczyk, Drees & Sommer AG
- 10:10 – 10:45 **Improving qualification/validation by optimising documentation**
Claudia Pachtl, ValTec GmbH
- 10:50 – 11:25 **Example from actual practice: Systems validation in medical technology**
Alexander Mayr, MED-EL Elektro-medizinische Geräte Gesellschaft m.b.H.
- 11:30 – 12:00 **Opportunities through monitoring systems**
Michael Müller, vali.sys GmbH

Congress/Module 4

Production process and validation: optimization during operation

9 November 2016, 13:00 – 15:30

- 13:00 – 13:40 **ISO TC 209 "Cleanrooms and associated controlled environment" – current status of work on standards and outlook for the future**
Dr. Berthold Duethorn,
Robert Bosch GmbH
- 13:40 – 14:15 **From nano to macro: Challenges posed by technical cleanliness for modern measurement strategies**
Dr. Udo Gommel
Fraunhofer Institute for Manufacturing Engineering and Automation IPA
- 14:20 – 14:55 **Planning and operating energy-efficient cleanrooms**
Dirk Steil, Becker Reinraumtechnik GmbH
- 15:00 – 15:30 **A final look: Future requirements for working in cleanrooms**
Josef Ortner, Ortner Reinraumtechnik GmbH



The heart of the trade fair. Cleanzone Plaza.

As the central point of contact and communication platform, Cleanzone Plaza will be playing host to informative presentations, special events and panel discussions throughout the entire event.

Furthermore, associations and institutions, such as VIP 3000 e. V., a group promoting the interests of those involved in pharmaceutical construction, will be showcasing what they have to offer. Another highlight: The mentoring programme of the German Cleanroom Institute (DRRI) will be organising a panel discussion, as well as presenting its bachelor's and master's degrees right at the heart of the trade fair.

You can also make use of Cleanzone Plaza to experience technical innovations up close.

The presentations are free of charge.

Informative. The Cleanzone Plaza Programme.

Day 1

- ⇒ Welcome speech and official opening of Cleanzone
- ⇒ Presentation of the nominees for the Cleanroom Award
- ⇒ Exhibitor presentations, including from Nitritex, Decontam and VIP 3000
- ⇒ Main topics:
 - Talent development and issues related to the next generation of cleanroom specialists
 - Industry 4.0 in cleanroom technology – an opportunity for innovation and the future???

Day 2

- ⇒ Exhibitor presentations
- ⇒ Presentation of the Cleanroom Award
- ⇒ Panel discussion on the topic "How can I identify good suppliers in the field of cleanroom technology?"
- ⇒ Conclusion



You will find the current programme at:
www.cleanzone.messefrankfurt.com

A clear plus. The Cleanzone supporting programme.

Outstanding achievements: The Cleanroom Award



The choice is yours! ReinraumAkademie presents the Cleanroom Award to honour projects in the field of cleanroom technology that are notable for their outstanding innovation, sustainability or efficiency. On the first day of the event, the five best concepts as chosen by our jury of experts will be presented, and you will then have an opportunity to vote for the winner. The awards ceremony will take place the next day at Cleanzone Plaza.

Celebrate a successful day: The Cleanzone After-work Party



Join with the exhibitors and speakers on the first evening of Cleanzone to celebrate a successful trade fair day in a relaxed atmosphere while strengthening new ties.

Practical expertise: The Cleanzone Workshop.

This year there will be a workshop on “AMC – a challenge for cleanroom technology” for the first time. The programme will be organised by my.cleanroom.de, a network uniting users and manufacturers.

Nowadays there are good solutions for particulate contamination. Due to the fact that structures are continuing to grow smaller and more sensitive, however, molecular contamination is becoming an increasingly important factor in many areas. The workshop will present the latest key findings pertaining to measurement and filter technology.

This event is of particular interest to the semiconductor industry, aerospace technology and the high-end plastics sector.

Further information about the workshop can be found at: www.cleanzone.messefrankfurt.com



Wide-ranging programme. Tailored to requirements.

Pure facts. Cleanzone – an overview.

Tickets and prices

Ticket for the entire trade fair

You can book your ticket for the entire trade free of charge until 21 October 2016. Register online at:

www.cleanzone.messefrankfurt.com/ticket

Starting on 22 October 2016 tickets will cost € 30.– each incl. VAT.

Congress tickets (including a ticket for the entire trade fair)

1 module € 135.– 4 modules € 365.– (ticket for

2 modules € 235.– the entire congress)

3 modules € 310.– Student ticket (2 modules) € 52.–

Cleanzone After-work Party

All tickets entitle you to visit the Cleanzone After-work Party starting at 17:00 on the first evening of the trade fair.

General

Opening times

Date	Trade fair	Congress
Tu 8. 11. 2016	from 9:00 to 17:00*	from 10:00 to 16:30
We 9. 11. 2016	from 9:00 to 16:00	from 9:30 to 15:30

* Followed directly by: The Cleanzone After-work Party

Arrival and stay

Cleanzone will be taking place in Hall 4.0. The trade fair can be reached through the "Torhaus" Entrance. You can also take lines S3, S4, S5 or S6 on the S-Bahn suburban train from Frankfurt Central Station to the "Messe" stop. From there you will be able to follow the signs to Cleanzone on foot. If you are arriving by car, enter via the North Gate. You will be able to park in P4 for a fee.

For more information, our Transport Guidelines and access to our partner hotels, please go to:

www.cleanzone.messefrankfurt.com

Exhibitor search

You won't have far to look: You will find all of the exhibitors under "Exhibitors and products" at:

www.cleanzone.messefrankfurt.com

W-LAN service

You will have free W-LAN all over the exhibition grounds.

Newsletter

Don't miss out on anything – sign up for the Cleanzone Newsletter. Simply register at:

www.cleanzone.messefrankfurt.com/newsletter

Hall plan



Marketing and content partner/
responsibility for the congress content:

cleanroom-academy

A clean room arises from the mind

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