International trade fair and congress for cleanroom technology
8 + 9.11.2016
Frankfurt am Main

Includes the congress programme
Welcome to the world of cleanroom technology.

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.

Everything under one roof. Everything at a glance.

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

You will find the very latest information on the full programme online at:
cleanzone.messefrankfurt.com/congress

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.
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker &amp; Location</th>
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<tbody>
<tr>
<td>10:00 – 10:25</td>
<td>Standards and guidelines on Cleanroom Technology – an overview</td>
<td>Dr. Lothar Gail, GMP and cleanroom technology consultant</td>
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<tr>
<td>10:30 – 10:55</td>
<td>Orientation and initial validation: Floors, walls, ceilings</td>
<td>Frans Saurwalt, Kropman Contamination Control</td>
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<td>11:00 – 11:25</td>
<td>Logistics – in the cleanroom value chain. Processes and data, information and material flows</td>
<td>Lukas Schober, Kalucon GmbH</td>
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<td>11:30 – 11:55</td>
<td>Requirements for cleanroom behaviour</td>
<td>Frank Duvernell, profi-con GmbH</td>
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<tr>
<td>12:00 – 12:30</td>
<td>The perfect cleanroom cloth – a difficult choice</td>
<td>Stefan Haupt, CLEAR &amp; CLEAN Werk für Reintechnik GmbH</td>
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<td>14:00 – 14:35</td>
<td>From the initial concept to the finished cleanroom: Key factors for professional planning management</td>
<td>Florian Dittel, Dittel Engineering</td>
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<td>14:40 – 15:15</td>
<td>Requirements for the design and construction of cleanrooms</td>
<td>Conor Murray, 3dimension</td>
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<td>15:20 – 15:55</td>
<td>Industry 4.0: Smart Cleanroom – Smart Liability?</td>
<td>Prof. Dr. Hans-Hermann Dirksen, Liebenstein Law</td>
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<td>16:00 – 16:30</td>
<td>What changes will draft standard E DIN 1946-4:2016-06 “Ventilation systems in buildings and rooms in healthcare facilities” entail for hospitals?</td>
<td>Ralph Langholz, Mann + Hummel Vokes Air</td>
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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 Pachl, 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

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
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.
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.

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

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.
Wide-ranging programme.
Tailored to requirements.

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 the entire congress)
2 modules €235.–
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

<table>
<thead>
<tr>
<th>Date</th>
<th>Trade fair</th>
<th>Congress</th>
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<tbody>
<tr>
<td>Tu 8.11.2016</td>
<td>from 9:00 to 17:00*</td>
<td>from 10:00 to 16:30</td>
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<tr>
<td>We 9.11.2016</td>
<td>from 9:00 to 16:00</td>
<td>from 9:30 to 15:30</td>
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*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
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