

ACHEMA

Review 2018

14 – 18 June 2021
Frankfurt am Main

Preview 2021



Content

DECHEMA

Ausstellungs-GmbH
Theodor-Heuss-Allee 25
60486 Frankfurt am Main
GERMANY

POSTAL ADDRESS

PO Box 17 01 52
60075 Frankfurt am Main
GERMANY

INTERNET www.achema.de
E-MAIL rental@dechema.de
TELEPHONE +49 (0)69 7564-0

EXHIBITORS +49 (0)69 7564-700
LECTURES +49 (0)69 7564-125
VISITORS +49 (0)69 7564-750
PRESS +49 (0)69 7564-277



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Feel the heartbeat of the industry

The process industry is the innovation driver of the global economy and pacesetter for numerous industrial sectors. Virtually all global value creation networks profit from the achievements of chemistry, pharmaceuticals, biotechnology and the process industry in some way. Research and development, production and manufacturing, packaging and logistics... without specialized solution providers, suppliers and service providers none of this would be conceivable!

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The central stage of the process industry is and remains ACHEMA.

Nowhere else is the heartbeat of our industry faster, more intense, more up-to-date, more innovative and international than here: ACHEMA is the trend-setting leading show for all sectors of the process industry, a showcase for all current technology trends, and a technology platform that sends out signals to the whole world.

And, even more importantly: ACHEMA strengthens relationships and establishes new ties between people, brands and markets.

Venturing into new territory

No ACHEMA is like the one before. This holds true even more for ACHEMA 2021 – our 100th anniversary event. For us, it is more important to focus on the present and our path to the future than it is to look back with pride on our past.

Bringing together the players in the process industry; refining technologies; pushing innovations so that we can jointly master the challenges faced in the world of tomorrow: This is the mission of ACHEMA.

Review

ACHEMA

2018





3,737

**Exhibitors from
55 countries**

144,628

**Attendees from
150 countries**

Leading show and global forum

An increased international presence, clear trends and satisfied exhibitors – these are the key words that summarizeACHEMA 2018.

At the world's leading event for the process industry, 3,737 exhibitors from 55 countries exhibited on over 132,000 m² of exhibition space to show off the latest technology and innovations for the chemicals, pharmaceuticals and food industries.

By far the biggest growth was seen in the exhibition group Pharmaceuticals, Packaging and Storage Technology. As expected, the group Instrumentation, Control and Automation Techniques was also able to profit from the general trend toward digitalization and automation. But also classic areas like Mechanical Process Engineering and Safety Technology occupied more floor space.

After Germany (1,644 exhibitors), China (342) and Italy (307) were best represented, with the last two also displaying significant growth over the previous event. A similar increase was also seen in the number of exhibitors from India and the Russian Federation, but countries like Poland, South Korea and Turkey also improved. At 56% the share of exhibitors from outside Germany grew again, making it higher than ever before.



The evaluations of visitor and exhibitor surveys revealed high satisfaction across the board with the standard ofACHEMA. As usual, the numerous product premieres and technology presentations met with great interest; most exhibitors successfully managed to establish new contacts or strengthen existing ones.

One slight drawback is no doubt the decline in the number of visitors to around 145,000. By contrast, the proportion of visitors who attended more than one day was exceptionally pleasing at 46.5%, which marked an increase by 10.4 percentage points!

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85 %

of the attendees rate
their ACHEMA visit excellent
or good.



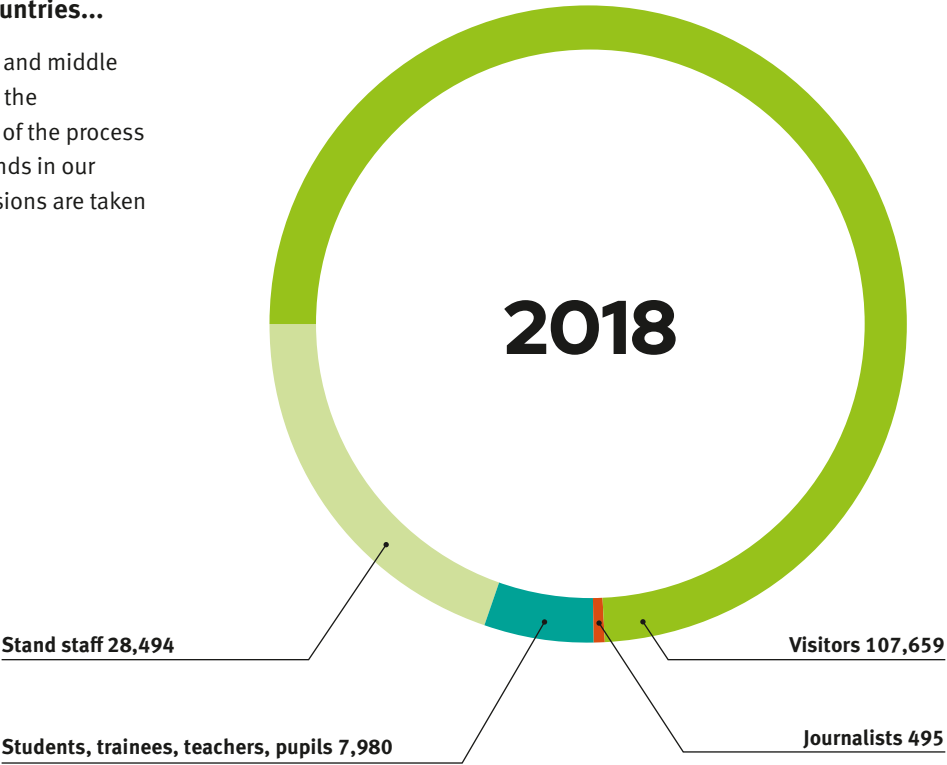
ATTENDEES PER DAY

	ACHEMA 2018	ACHEMA 2015	ACHEMA 2012
Monday	38,580	41,624	39,997
Tuesday	53,981	58,261	56,280
Wednesday	58,076	61,273	60,931
Thursday	47,403	52,853	50,991
Friday	26,918	29,687	31,119
Total	224,958	243,698	239,318

Networking and investment decisions

150,000 participants from 150 countries...

including 30,000 executives from top and middle management will makeACHEMA 2021 the communication hub and marketplace of the process industry. This is where technology trends in our sector are launched, investment decisions are taken and new ventures are initiated.



OVERALL OPINION OF ACHEMA 2018

Excellent / good	85.2 %
Satisfying	4.5 %
Non-satisfying	0.1 %

PROFESSION

Chemist, physicist	12.7 %
Engineer	40.3 %
Foreman, technician, laboratory assistant	13.6 %
Commercial staff	8.6 %
Student, trainee, teacher, pupil	12.0 %
Other	12.9 %

POSITION IN THE COMPANY

Owner, partner	7.6 %
Self-employed	4.0 %
Executive level	8.5 %
Head of department / group	13.5 %
Technical or commercial employee	26.8 %
Instructor, teacher, lecturer, scientific staff	3.8 %

INTEREST BY EXHIBITION GROUPS

Engineering	36.8 %
Laboratory and analytical techniques	32.4 %
Pumps, compressors, valves and fittings	30.2 %
Research and innovation	28.8 %
Mechanical processes	27.0 %
Instrumentation, control and automation techniques	25.7 %
Thermal processes	25.4 %
Pharmaceutical, packaging and storing techniques	18.2 %
Materials technology and materials testing	11.6 %
Industrial and labour safety	11.0 %

HOME COUNTRY

Germany	68.6 %
Northern and Western Europe	8.2 %
Central and Eastern Europe	4.5 %
Southern Europe	3.6 %
Americas	2.6 %
Other countries	12.3 %

Showcase of process engineering

3,700 exhibitors from 50 countries

No other event for our industry attracts anything approaching our high exhibitor figures:ACHEMA achieves broad-based acceptance in its target groups and upholds its unrivaled position as the world forum of the process industry.

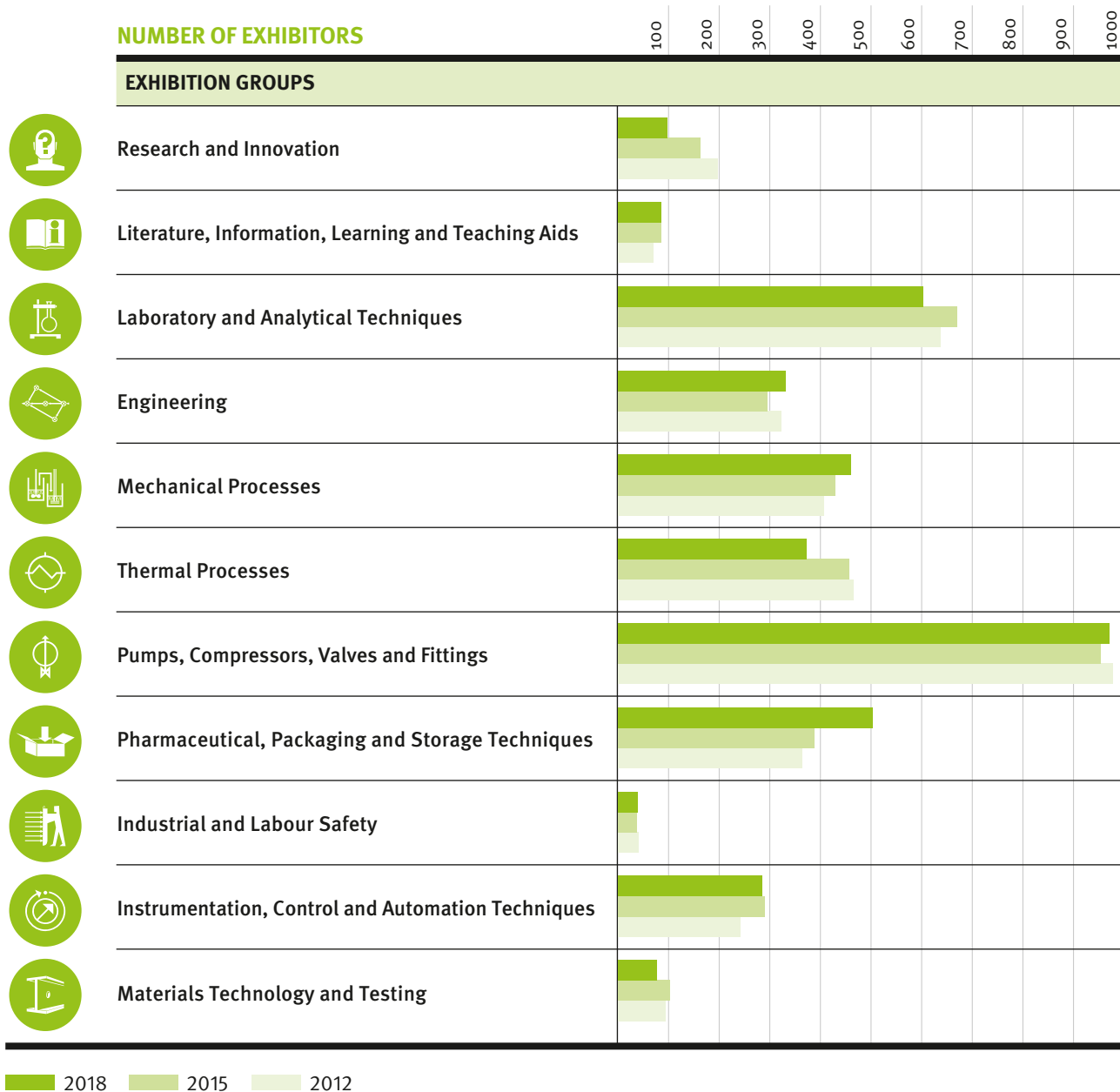


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2018	2015	2012
3,737 Exhibitors	3,813 Exhibitors	3,773 Exhibitors
55 Countries	56 Countries	56 Countries
56 % International share	54 % International share	49 % International share

COUNTRY	EXHIBITORS	SPACE / m²
Germany	1,644	78,909
PR China	342	5,694
Italy	307	12,366
India	175	3,691
USA	153	3,498
Great Britain	144	2,584
Switzerland	143	4,966
France	130	2,990
Spain	83	2,468
The Netherlands	79	2,019
Austria	56	1,252
Japan	52	1,192
South Korea	47	1,388
Taiwan	46	937
Belgium	41	1,194
Turkey	36	962
Poland	29	753
Denmark	26	652
Sweden	22	546
Czech Republic	21	565
Russian Federation	19	234
Finland	18	402
Ireland	15	473
Slovenia	13	408
Portugal	11	300
Canada	11	207
Israel	8	177
Hongkong	7	139
Romania	6	94

COUNTRY	EXHIBITORS	SPACE / m²
Hungary	5	86
Croatia	4	98
Bulgaria	4	70
Iran	4	24
Australia	3	64
Lithuania	3	64
Latvia	3	45
Norway	3	27
Singapore	2	154
Luxembourg	2	104
New Zealand	2	56
Argentina	2	40
Macedonia	2	32
Malaysia	2	11
Greece	1	66
Vietnam	1	66
Liechtenstein	1	54
Serbia	1	29
Bahrain	1	23
Mexico	1	22
Belarus	1	20
Saudi Arabia	1	15
South Africa	1	12
Thailand	1	12
Indonesia	1	
Ukraine	1	
Total	3,737	132,254



**HOW DO YOU RATE YOUR SUCCESS AT
ACHEMA 2018?**

Excellent or good	64 %
Average	29 %
Poor	5 %

The background image shows a group of people in business attire looking at a large industrial machine, possibly a robotic arm or a complex manufacturing component. The scene is overlaid with a semi-transparent magenta filter. In the bottom right corner, there is a white triangular graphic element.

Frankfurt am Main



14 – 18
June

Preview **ACHEMA** 2021



Innovations from today for the world of tomorrow

As the summit meeting of the leading companies of a globally connected industry, ACHEMA is the platform that highlights new perspectives and mobilizes synergies.

In 2021 the leading event of the process industry will once again showcase the full strength of our industry – and inspire new projects across all contents.

For the process industry, ACHEMA represents both an innovation offensive and a driving factor behind growth in the industry. Nowhere else can complete solutions for all areas of the process industry be found in such breadth, depth and up-to-dateness.

This year's focal topics promise to deliver new impulses:

- » **The digital lab:** ACHEMA gets to the heart of the digital transformation in laboratories.
- » **Modular and connected production:** smaller batch sizes, more specialized products, faster cycles, communicating hardware – ACHEMA takes the paradigm shift that is currently being driven by digitalization to the next level.
- » **Product and process security:** The challenges associated with topics like Industry 4.0, blockchain, AI, but also cyber-attacks demand new solutions. We show what these solutions look like.

An exciting congress program with specialist lectures and keynote addresses on current topics, panel discussions, exhibitor forums ('PRAXISforums'), expert round tables, top-class guest events and symposiums as well as an attractive social program round off the range of events on offer at ACHEMA 2021 and open up new perspectives in terms of a sustainable future for the process industry.



As the leading event of a highly diversified industry, ACHEMA aims to address the needs not only of medium-sized enterprises, but also of international companies, family businesses, start-ups and large-scale industry alike. Different stand options geared towards different budgets are a factor that helps to make this possible.

DIFFERENT LEVELS FOR EVERY BUDGET

Aisle stands	341.00 €/m²
Central aisle stands	409.20 €/m²
Block stands/corner stands	477.40 €/m²
Outdoor area	135.00 €/m²
Special rate (start-ups and university research institutions)	216.00 €/m²
Co-exhibitor fee	975.00 €

All prices are subject to VAT at the applicable rate.



Register online
www.achema.de/application-exhibitors

Interactive and practice-oriented

Alongside the exhibition, the ACHEMA Congress offers inspiration and expert knowledge in abundance. Together with the tried-and-tested PRAXISforums, new formats such as Bring your Problem, Innovation Pitch or the ACHEMA Safari allow for interaction right in the midst of the exhibition grounds.

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Topics from practice – for practice!

Special events and guest events, expert round tables, panel discussions, forums, start-up sessions and plenary lectures will provide you with the opportunity to present your products and solutions in the right light.

Experience international experts who present the latest results from research and development alongside innovations that are about to hit the process industry. Discuss current developments and future prospects with renowned thought leaders and decision makers.

In the PRAXISforums you can selectively address your targeted exhibition groups, while the ACHEMA Safari will guide visitors directly to your exhibition booth.

On top of this, school and university students have their own special program at ACHEMA, giving the next generation – tomorrow's customers and employees – an all-round introduction to the world of the process industry.

Exciting and informative

A review of congress topics atACHEMA 2018

- » **Biotechnology**
 - Biotech for chemistry
 - Biotechnology for a sustainable bioeconomy
 - PRAXISforum: Bioprocessing
- » **Chemical and pharma logistics**
- » **Digitalisation meets process industry**
- » **Energy**
 - Future energy supply
 - Electricity as a resource
- » **Engineering**
 - Chemical engineering
 - Resource efficiency
 - Reaction technology
 - Scalable milli and micro production technology
 - Phytoextraction and technology
 - PRAXISforum: Advanced reactor design
 - Flow Chemistry Symposium
- » **Flexible production**
 - Digitalisation
 - Future production
 - Data exchange in the process industry
- » **Industrial and labour safety**
 - Cyber security
 - The future of process safety
 - Labour and process safety
 - PRAXISforum: Safety first!
- » **Laboratory and analytical techniques**
 - Lab technology
 - PRAXISforum: Lab of the future
- » **Materials technology and testing**
 - Particle characterisation
 - International Powder and Nanotechnology Forum
 - Materials and material processing
- Innovative materials for electrochemistry
- Managing corrosion and fouling
- Nickel alloys for today's process industry
- Alloys for steam cracking furnace coils
- » **Mechanical processes**
 - Mixing and separation technology
 - Membranes and membrane processes
 - PRAXISforum: Innovative mixing and separation solutions
- » **Pharmaceutical technologies**
 - Pharmaceutical technology
 - PRAXISforum: Pharma meets production
- » **Plastic-free Europe**
- » **Process analytics**
 - Innovative process analytics
 - Model based process control in real life
 - Process analytical technology
 - Handheld vibrational spectrometers
 - PRAXISforum: Sensor-based production control
- » **Pumps, compressors, valves and fittings**
 - Droplet entrainment and droplet reduction
 - PRAXISforum: State-of-the-art in fluid handling
- » **Raw materials**
 - Sustainability – renew, resource, rethink
 - CO₂Plus – broadening the raw material base
 - Raw materials and alternative feedstocks
- » **Sustainable chemical value chains**
 - New Perspectives for sector coupling
- » **Visible-light photoredox catalysis in flow**
- » **Water technologies**
 - Industrial water management
 - Water treatment, water reuse and desalination
 - Water reuse in industry

PRAXISforums ACHEMA 2021

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Practice-oriented topics are presented in compact form by experts from the world of our exhibitors: This is the concept of the ACHEMA PRAXISforums, which are integrated in the appropriate exhibition halls according to the topics covered.

- » Additive manufacturing
- » Bioprocessing: Speed, flexibility, optimization
- » Future production: modular, connected, smart
- » Industrial intelligence & sensor-based process control
- » Innovative mixing and separation solutions
- » Innovative product design in mechanical process engineering
- » Pharma meets production
- » Plant design & maintenance
- » Product & process security
- » Renewing the chemical & pharma supply chain
- » Safety first!
- » State-of-the-art in fluid handling
- » The digital lab
- » Water technologies

Communication and creativity

ACHEMA, the opinion-leading information hub, calls the shots for the process industry worldwide. With several hundred specialist journalists from all over the world, a strong media impact is guaranteed, reaching decision-makers on all continents.

Whether it be exhibitors' innovations, the latest specialist topics or problems urgently requiring solutions:

ACHEMA pools the creativity of the whole sector and showcases the expertise of its exhibitors to a global audience.

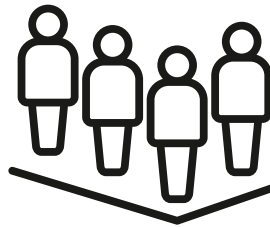


Recruiting made easy

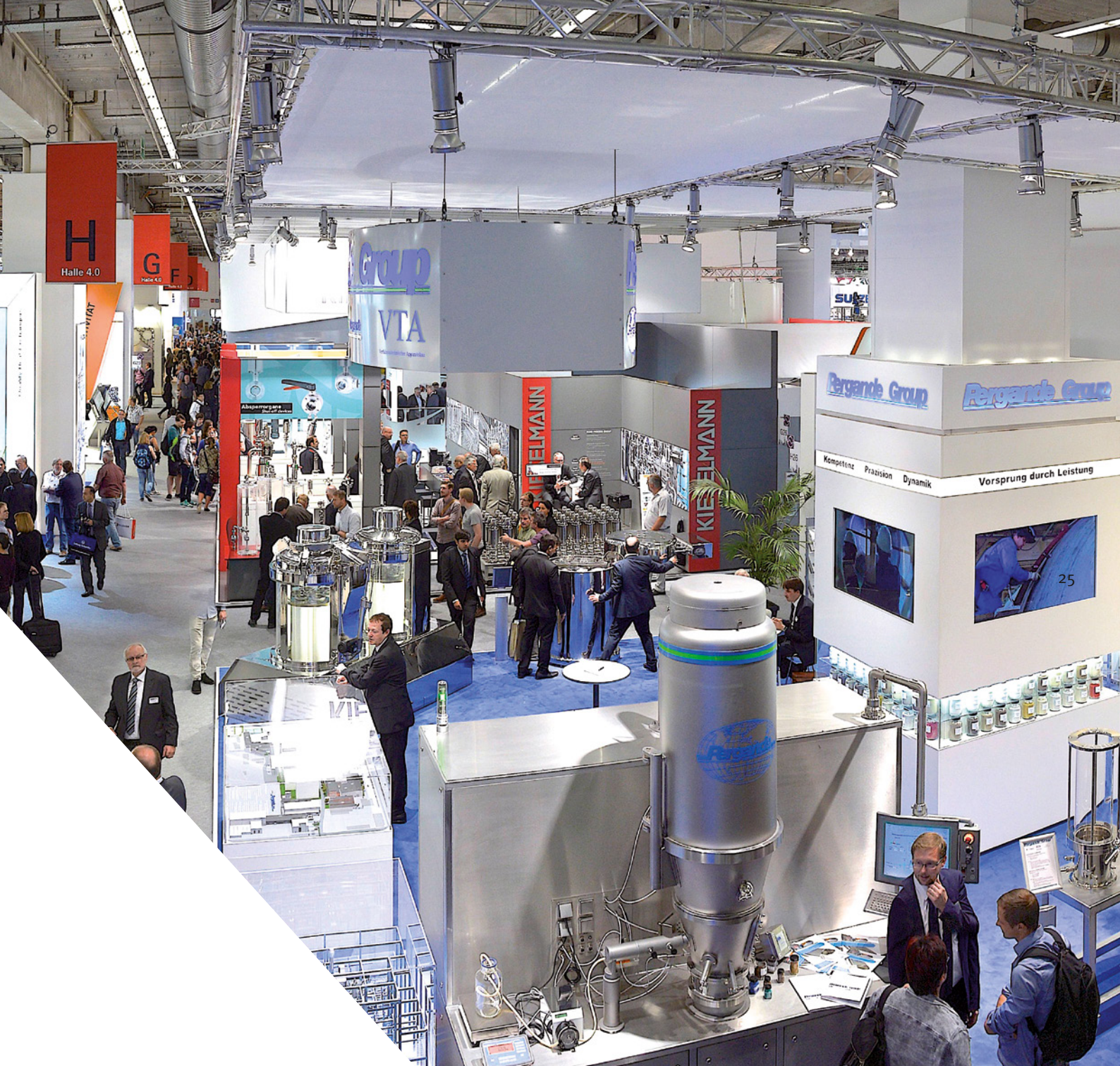
With the potential represented by the specialists and executives among the 150,000ACHEMA participants,ACHEMA is the perfect setting for effective and targeted recruitment efforts.

ACHEMA has marked the starting point or even a turning point in countless careers in the process industry. Where else could you find a better platform for filling open positions than atACHEMA?

Not least with the well-established 'jobvector career forum',ACHEMA supports exhibitors in their search for suitable young talent and provides help with filling vacancies.



150,000
ACHEMA
attendees



H

Halle 4.0

G

Halle 4.0

Group
VTA

KIEHMANN

KIEHMANN

Pergande Group

Pergande Group

Kompetenz Präzision Dynamik

Vorsprung durch Leistung

25

Synergy is more

A large number of industries from almost all industrial sectors takes advantage of the diverse technological solutions enabled by process engineering.

As a result, the holistic concept of production-integrated environmental protection has become one of the hallmarks of ACHEMA. And: nowhere is the merging of molecular and industrial biotechnology as tangible as at ACHEMA.

Efficient industrial water management is an essential requirement for the operation of any industrial site. Today's challenges, such as the energy revolution, demand innovative solutions – which in turn rely on the progress in materials technology. But without coherent safety concepts all of this would be... nothing! Big Data and Smart Analytics in turn boost efficiency, create transparency and pull together know-how across industry boundaries.

With its interdisciplinary approach, ACHEMA is a central hub in the worldwide innovation network and the basis for forward-looking strategic choices – in the process industry and beyond.



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ER +++ SAFETY +++ BIG DATA +++ ENERGY +++ RAW MATERIALS

The AICHEMA media family

A clear view on all channels

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ACHEMA Online

www.achema.de is the internet platform for process engineering and a compass for questions and contact initiation in all areas of our industry. Intuitive menus pave the way through the wide range of AICHEMA offerings and open the door to a successful attendance.

ACHEMA App

A mobile way to keep in the picture and on the ball.

ACHEMA Magazine

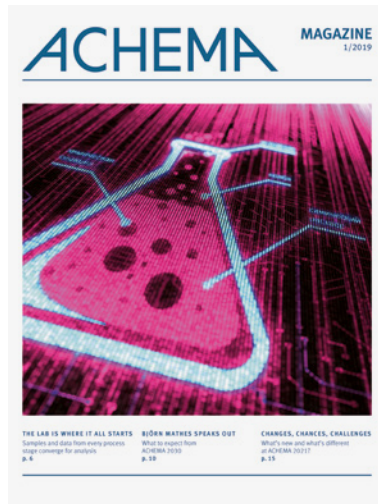
Background information and stories all around AICHEMA and our industry. Published every six months as an English-language print edition and online – providing information, news and exciting stories from the world of the process industry between AICHEMA events. Simply visit achema.de to subscribe!

Visit our website:
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Google Play or the AppStore.

Read, subscribe or download:
www.achema.de/magazine



10-12: The future of process engineering
 10-12: The future of process engineering
 10-12: The future of process engineering



ACHEMA Newsletter

Information all around Achema and innovations from the process industry straight to your e-mail inbox.

ACHEMA Catalog

A summary of all exhibitor data – even after years, this handy buyers' guide will still prove a welcome resource.

ACHEMA Daily

Day-to-day reporting during the event days with information about everything that is happening on site.

ACHEMA Program

The compact overview of congress topics and all events at and around Achema. Available as a brochure from March 2021.

Subscribe now and keep up to date:

www.achema.de/newsletters

Just get connected

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ACHEMA Partnering is a highly effective tool enabling visitors and exhibitors to identify potential co-operation and business partners and quickly get connected. Already during the run-up to the event, you can make new contacts that match your personal profile.

Arrange meetings directly – so that you can make the best possible preparations for your show appearance or visit.

www.achema.de/networking

ACHEMA start-up formats

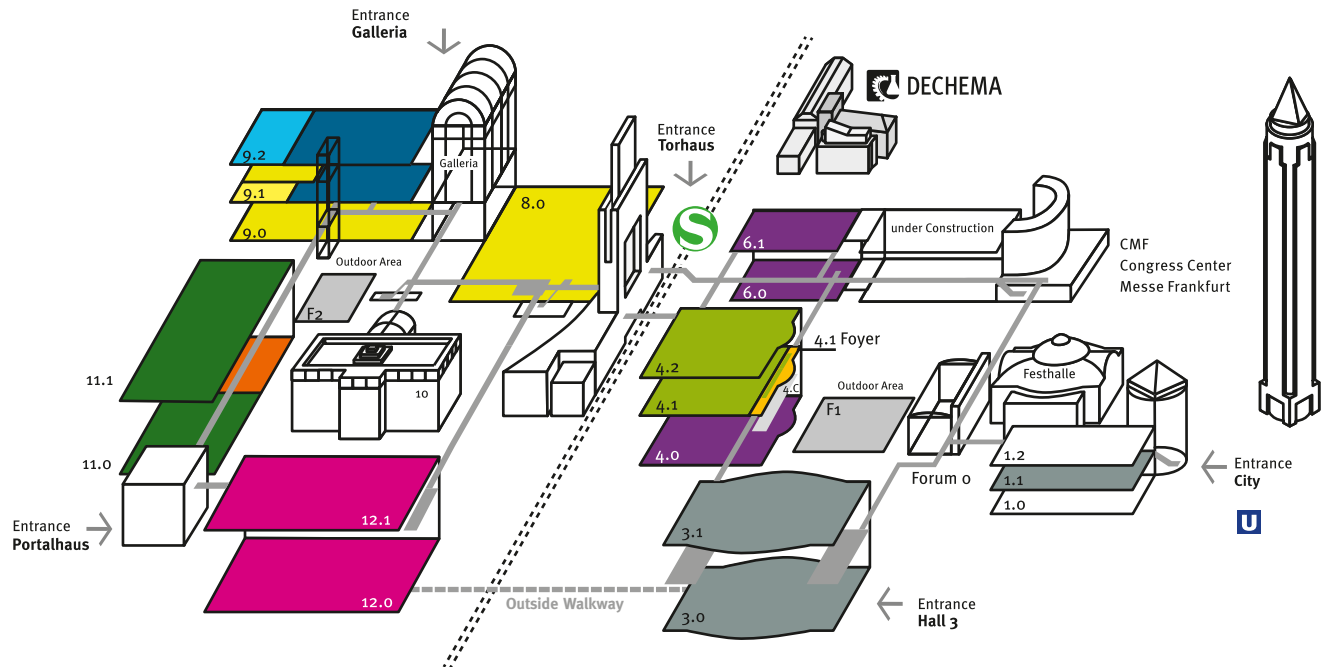
Who has the best business concept and will bring a breath of fresh air to the industry with new ideas and entrepreneurial spirit?

The ACHEMA Start-Up Award is an international recognition of outstanding ideas and young companies in all areas of ACHEMA's target groups. Endowed with prize money of € 10,000 each, the award offers the finalists financial start-up aid as well as media backup – and thus becomes the stepping stone for an entrepreneurial breakthrough.

www.achema.de/start-up-award



Overview of exhibition halls



EXHIBITION GROUPS



Engineering
9.1, 9.2



Literature, Information, Learning and Teaching Aids
4.1 Foyer



Pharmaceutical, Packaging and Storage Techniques
1.1, 3.0, 3.1



Thermal Processes
4.0, 6.0, 6.1



Research and Innovation
9.2



Mechanical Processes
12.0, 12.1



Pumps, Compressors, Valves and Fittings
8.0, 9.0, 9.1



Materials Technology and Testing
11.0



Laboratory and Analytical Techniques
4.1, 4.2



Instrumentation, Control and Automation Techniques
11.0, 11.1



Industrial and Labour Safety
9.1

Enter new markets, open doors and overcome boundaries

Global platform for the process industry

As the leading event for a globally positioned industry, ACHEMA has a worldwide signaling effect and is the central meeting point every three years for executives, users and solution providers from all over the world.

AchemAsia 2022

Shanghai – PR China – May 2022

In view of the emerging markets outside of Europe, globalization today demands a local presence in the dynamic growth markets of the new world. This is the backdrop against which DECHEMA has been hosting **AchemAsia** in China for some thirty years now, again in a three-yearly cycle. The event has now established itself as the leading event for the process industry in Southeast Asia.

www.achemasia.de

www.achema.com.cn



At your service, all over the world

Wherever you are, our friendly representative for your part of the world is only a phone call away.



Great Britain / Ireland



NELE ANDERSCH

The Reference Point
St John's House
St John's Street, Chichester
PO19 1UU
UK

☎ + 44-1243-850602

✉ nele.andersch@the-reference-point.com



Canada / USA



ALAN R. MORRIS

22 Bayview Avenue
Manhasset, NY 11030
USA

☎ + 1-516-869-0220

✉ amorris@morrismarketinginc.com



Belgium / France



VICKIE NIKOLAOU

25 rue Charles
Ferdinand Dreyfus
91640 Fontenay les Briis
France

☎ +33-1-64922429

✉ vnikolaou@wanadoo.fr



Italy



LILIANA REALINI

Studio Realini Snc
Via V Giornate, 8
20021 Bollate - MI
Italy

☎ + 39-02-33606013

✉ fiere@studiorealini.it



South Africa



REX BOWDEN

CATALYZE
International Events
16 Cambier Way
Kreupelbosch
7945 Cape Town
South Africa

☎ + 27-21-7125799

✉ rex@catalyze.co.za



Turkey



FERIT ORBAY

Emel Sokak 3
Iclevent
34330 Istanbul
Turkey

☎ + 90-537-5405259

✉ ferit@orbay.net



Headquarters Germany / Worldwide Services



BIANCA BUKATSCHKEK

Theodor-Heuss-Allee 25
60486 Frankfurt a.M.
Germany

☎ +49-69-7564 198

✉ bianca.bukatschek@dechema.de



JULIA PICARD

Theodor-Heuss-Allee 25
60486 Frankfurt a.M.
Germany

☎ +49-69-7564 434

✉ julia.picard@dechema.de



Czech Republic / Slovakia



LUCIE HAVLOVA

Ricanova 19
169 00 Prague 6
Czech Republic

☎ + 450-2-3335246

✉ lucie.havlova@happymaterials.com



Russian Federation



**EKATERINA
SHERSTOBITOVA**
Messe Frankfurt RUS
Leningradsky Prospect
39 Building 80
125167 Moscow
Russia

☎ + 7-495-6498775-103
✉ ekaterina.sherstobitova@russia.messefrankfurt.com



Poland



PIOTR LUKASZEWICZ
Targi Frankfurt
Przedstawicielstwo w Polsce
ul. Bohdanowicza 21/21
02-127 Warszawa
Poland

☎ + 48-22-4943200
✉ piotr.lukaszewicz@poland.messefrankfurt.com



**PR China / Hong Kong /
Macao / Taiwan**



Sanly Wang
Tianxing Street
Fangshan District
102488 Beijing
PR China

☎ + 86-10-56902001
✉ wxianli@worldboson.com



**South Korea / Malaysia /
Singapore / Thailand / Vietnam**



TAE-JIK CHAE
Kong Myong E & T
1001, I-want office
13 Teheran-ro64-gil
Gangnam-gu, Seoul 06193
Republic of Korea

☎ + 82-2-7786792
✉ achemaseoul@naver.com

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