

ACHEMA2022

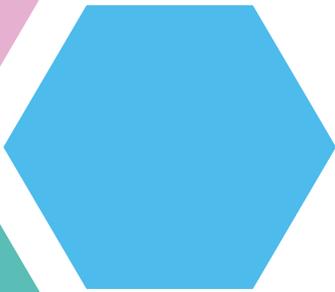
Program

World Forum and
Leading Show for the
Process Industries



22 – 26 August 2022
Frankfurt am Main,
Germany

www.achema.de



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#back2live

ACHEMA 2022World Forum and 33rd Leading Show for the Process Industries
Frankfurt am Main, Germany**22 – 26 August 2022**

Live again at last – that’s the motto of ACHEMA 2022! After so many months of digital meetings, the entire industry is longing for an in-person trade show. With real exhibits and face-to-face encounters: Be there, too, when in August 2022 Frankfurt am Main is once again the world capital of chemistry for a week!

As the innovation driver of the global economy, the process industry has impressively demonstrated its strength, innovation power and resilience during the pandemic. From the unprecedented successes in vaccine development to pioneering climate neutrality approaches without the wealth of ideas in our industry, none of this would be possible. Now let’s take the next steps together with ACHEMA 2022 in tackling upcoming challenges – there are certainly enough of them.

One challenge we have already mastered is the shift to the “new normal” in the trade show world. Yes, trade fairs are not only hygienic and safe even under Corona conditions but can also be implemented successfully!

So let’s take the opportunity and look forward to what ACHEMA will offer in abundance once again: Inspiration, interaction, innovation. And last but not least, a community of industry professionals driving cooperation – across all disciplines and along the entire value chain.

As the world’s only comprehensive showcase of the latest technology trends in our industry, ACHEMA is both a must-attend event and a source of inspiration for everyone who makes a difference in the world of the process industry.

With this in mind, we cordially invite you to participate in the 33rd ACHEMA and look forward to welcoming you to Frankfurt am Main in August 2022.



Dr. Klaus Schäfer
Chairman of
DECHEMA e.V.



Jürgen Nowicki
Chairman of the
ACHEMA Committee



Dr. Andreas Förster
Executive Director of
DECHEMA e.V.



Dr. Thomas Scheuring
CEO of
DECHEMA Ausstellungs-GmbH

Digital Hub

Welcome to our newest exhibition group!

The Digital Hub is the central meeting point for digital experts and all participants interested in or actively involved in the digital transformation of the process industry. The exhibition area with a central stage offers the latest insights from experts and solution providers and facilitates future-oriented discussions with executives and experts alike.

» Page 12



Green Innovation Zone

Challenges and solutions for a more sustainable future!

The “green” transformation is by far the most challenging project in the history of the process industry. The Green Innovation Zone brings together pioneers, experts and solution providers from industry, politics and science with decision-makers and users. Forge new partnerships here for the decade of delivery!

» Page 12



Action Area Digital Lab

Experience, handle and try out the smart lab of tomorrow!

Immerse yourself in the world of the connected and digitalized laboratory with six use cases. Here, equipment and software manufacturers show you vendor-independent digitalization solutions based on relevant practical scenarios. Experience Cobot assistance, laboratory execution systems, horizontally and vertically connected yet modularly adaptable device solutions, and learn more about the new Laboratory & Analytical Device Standard.

» Page 13



Congress and PRAXISforums

This year's presentations will showcase the latest developments and research results in engineering, biotechnology, chemical and pharmaceutical science and technology. In addition, the Congress will be fully integrated into the trade show for the first time: All lectures will take place either on stages directly in the exhibition halls or close to the exhibition groups – forget long walks! There will be a special focus on hydrogen economy, fossil-free production, digitalization in the process industry, perspectives in laboratory and analytics, and novel bioproduction processes and technologies.

» Page 14



Start-up Area

ACHEMA is the meeting place for all players in the process industry, including young companies and new business founders. In addition to the already established start-ups that can be found in all the ACHEMA exhibition groups, we will also be presenting early entrepreneurs in the Start-up Area, along with the ten finalists of the ACHEMA Start-up Award.

» Page 13

Career

Get your career off to a flying start!

On the lookout for a new challenge? At ACHEMA, you will gain access to more potential employers than at any other platform: The majority of our exhibitors bring their HR managers with them to the show. With the Career Forum, we also offer a networking event all about successful applications, career paths and job prospects. We support students in the framework of the ACHEMA study courses.

» Page 21



Health and Safety

Your safety is our top priority. Our health and safety measures – tried and tested at many trade shows – ensure smooth trade show operations and a relaxed atmosphere.

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The new ACHEMA app – your mobile companion

A must-have for your visit to ACHEMA: The complete directory of exhibitors with extensive search and filter options, interactive hall plan and many practical functions makes it easy for you to locate and contact suitable suppliers. Get in touch with experts from the global ACHEMA community via the integrated matchmaking function, expand your business network in a targeted manner and exchange information on innovative solutions. The app also contains the current congress program, which allows you to transfer your favorites directly to your calendar. Daily updates ensure you are always informed about the latest developments.

The **ACHEMA app** will be available free of charge for Apple iPhone (iOS 9.0 or higher) and Android Phones (version 4.1 or higher) from the official app stores from mid-July 2022. We recommend bookmarking www.achema.de/mobile-app.



Exhibition Groups

A key concern of ACHEMA is the interdisciplinary sharing of experience between manufacturers, users, developers and scientists. Over 2,000 exhibitors spread across 13 hall levels and two outdoor areas will be presenting a wide range of new developments, innovative products and system solutions. This provides ACHEMA visitors with access to the entire spectrum of process technology in a depth, transparency and current relevance that is unparalleled anywhere else in the world. The scope of information on offer is combined in the form of exhibition groups in such a way that these sub-areas are assigned to individual hall levels.



Engineering

Hall 9.1

Development, planning and construction of production facilities for all areas of chemical and pharmaceutical engineering and biotechnology, flow chemistry, CAE – Computer-Aided Engineering, facilities for water and wastewater treatment, exhaust gas cleaning, waste disposal and recycling, chemical parks.



Digital Hub

Hall 11.0

Digital solutions for production, maintenance and plant design/construction, research and innovation, logistics and supply chain management, cyber security, augmented reality (AR), virtual reality (VR), artificial intelligence (AI), blockchain, data virtualization platforms, edge computing, big data, machine learning, smart analytics, 5G.



Research and Innovation

Hall 6.0

Areas of activity and latest research results from university institutes and research facilities, Start-up Area and Green Innovation Zone.



Laboratory and Analytical Techniques

Hall 4.1

Equipment, facilities, chemicals and services for research and industrial laboratories, laboratory planning and set-up as well as equipment for physical and chemical analysis, including sample preparation.



Literature, Information, Learning and Teaching Aids

Foyer 4.1, Hall 6.1

International media from all areas of the technology and service spectrum for ACHEMA, manufacturers of learning and teaching aids for higher education, vocational training and continuing education.



Mechanical Processes

Hall 12.0

Plant, apparatus and equipment for mixing, kneading, stirring, sieving, filtering including filter media, centrifuging, comminuting, grinding, agglomerating, homogenizing, conveying, weighing, drive technology and cleaning technology.



Instrumentation, Control and Automation Techniques

Hall 11.0, 11.1

System solutions and components such as sensors or processors for the automation, control and monitoring of procedures, processes and plants.





Pharmaceutical, Packaging and Storage Techniques

Hall 3.0, 3.1

Apparatus, machinery and materials for dosing, filling, capping, packaging and labeling, machinery for manufacturing and packaging pharmaceuticals and foodstuffs, transport and storage technology, logistics and supply chain management.



Pumps, Compressors, Valves and Fittings

Hall 8.0, 9.0

Pumps and compressors for all media and a wide range of operating conditions, valves, piping, seals and packings, high-pressure applications.



Industrial and Labour Safety

Hall 9.1

Safety concepts for chemical plants, equipment, aids and measures for protecting people and the environment.



Thermal Processes

Hall 4.0, 6.1

Plants, apparatus and equipment for distilling, rectifying, extracting, absorbing, crystallizing, drying, heating and cooling, electrochemical processes, membrane processes, bioreactors, energy generation and conservation processes.



Materials Technology and Testing

Hall 11.0

Metallic, non-metallic and composite materials for chemical engineering, surface protection such as enameling, plating, plasma spraying, coating, bonding technology, testing materials and components, materials for energy generation, conversion and storage.

Group Stands

- » 5G Alliance for Connected Industries and Automation (5G-ACIA) – Hall 11.0
- » ACHEMA Start-up Award – Hall 6.0 (Start-up Area)
- » Austrian Chamber of Commerce, Austria – Halls 9.1 and 11.1
- » Baden-Württemberg International – Hall 8.0
- » Digital Innovation Zone – Hall 11.0
- » Excellence United – Hall 3.0
- » FLUIDEX – Spanish Association for Fluid Handling Solutions & Process Technologies, Spain – Halls 8.0, 9.0 and 9.1
- » GAMBICA Association, Great Britain – Hall 4.1
- » Green Innovation Zone – Hall 6.0
- » InnoSÜD – Hall 6.0
- » Innovation Centre Denmark, Denmark – Hall 11.0
- » Innovation made in Hessen – powered by Technologieland Hessen – Hall 6.0
- » International Trade Press Stand – Hall 6.1
- » LABMAS – Laboratory Manufacturers Association of Spain – Hall 4.1
- » Research and Innovation Rheinland-Pfalz – Hall 6.0
- » saar.is – saarland.innovation&standort e.V. – Hall 6.1

Theme Stands

Flow Chemistry Pavilion – Hall 9.1

Here, everything revolves around continuous process engineering and its industrial applications. Market leaders from the flow chemistry sector will present their latest solutions for continuous production, covering all aspects of process technology from upstream and downstream applications to fluid handling. In addition to the exhibition, the show will also feature a two-day symposium with top speakers from the flow chemistry community.

Modular Production and NOA – Hall 11.0

The special show “Modular Production and NOA” is a joint project of manufacturers, module builders and users from the process industry. Under the umbrella of the associations NAMUR, VDMA, ZVEI, as well as DECHEMA and VDI-GVC, the participating companies are driving current topics in process automation. The focus is on the Module Type Package (MTP) as the core technology of modular automation and the NAMUR Open Architecture (NOA), which, among other things, opens up a secure second channel for monitoring and optimizing process plants.

Attendance at the opening is open to all AICHE attendees on a space-available basis.

Further information and pre-registration at www.achema.de/side-events



OPENING

Climate-Neutral Chemical Industry 2050

Monday, 22 August 2022, 17:00 – 18:30 h

Forum, Level 1

Europe aims to become climate-neutral by 2050. The chemical industry is also working on technologies to achieve this goal. What are the opportunities, challenges and obstacles for a climate-neutral chemical industry and society? How do we shape the necessary political framework conditions and incentives, which financial instruments are required?

After the welcome address and opening of AICHE by Klaus Schäfer, Chief Technology Officer of Covestro AG and Chairman of DECHEMA e.V., Martin Bruder Müller, President of CEFIC – The European Chemical Industry Council, will present the perspective of the European chemical industry in his keynote speech at the end of the first day of the exhibition. Afterward, open questions will be discussed with Martijn Smit, Business Development Director of Northern Lights, and Ernst Rauch, Chief Climate and Geo-Scientist of Munich RE.



Dr. Klaus Schäfer
CTO, Covestro AG,
Leverkusen, Germany



Dr. Martin Bruder Müller
President of CEFIC – The European
Chemical Industry Council, AISBL,
Brussels, Belgium
CEO, BASF SE, Ludwigshafen,
Germany



Ernst Rauch
Chief Climate and Geo-Scientist
Munich Re Group, Munich,
Germany



Martijn Smit
Business Development
Director, Northern Lights,
Stavanger, Norway

Focal Topics

What topics are driving the process industry today and in the coming years? AICHEMA's focal topics provide the impetus for future developments.



The Digital Lab

Data from all areas of research and production come together in the lab. Modular, automated and fully connected: The Digital Lab is the data mine for process development and quality assurance.



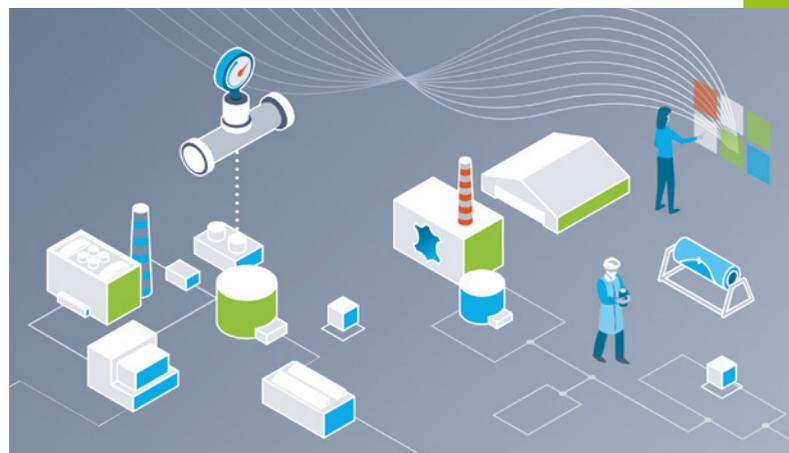
Product and Process Security

The interfaces between the real and virtual worlds require special attention in the age of Industry 4.0. Digital security is increasingly becoming a challenge for connected production.



Modular and Connected Production

Smaller batches, faster cycles, connected and modular hardware – digitalization is driving industrial production.



Digital Hub

Hall 11.0

Meeting Place for Digitalization Players



The topic of digitalization has finally claimed a top spot on the agenda of the process industry. It is also becoming increasingly significant in the AICHEMA community. Our new exhibition group “Digital Hub” builds the bridge to the digital economy.

Digitalization and the transformation it brings have long since outgrown IT departments’ traditional areas of responsibility and arrived at the core of the AICHEMA community. Expectations of profitable synergies and new potential are evolving in breadth and speed in sync with the new technologies available to the industry.

As a central hotspot, the “Digital Hub” puts digital showcases of the process industry in the spotlight and offers space for exchanging ideas.

At the central Siemens Digital Innovation Stage and the exhibition, the latest findings will be presented to spark productive discussions.

Main Partner Digital Innovation

SIEMENS

Green Innovation Zone

Hall 6.0

Challenges and Solutions for a More Sustainable Future



The process industry is fully committed to the United Nations Sustainable Development Goals. At the same time, it is often critical for the green transformation of adjacent industries. With the international, cross-industry opportunities that AICHEMA offers as the leading platform for the process industry, we are doing our part to solve the most ambitious challenge of our decade: #NetZero.

This special area highlights green innovations and the challenges facing the process industry on its way to climate-neutral production. Five areas in particular will be in the spotlight at AICHEMA:

- » Climate-neutral production
- » Circular economy
- » Industrial water
- » Sustainable chemistry
- » Bio-based economy

The central point of contact for cross-sector dialog from industry, politics, science and finance is the EY Innovation Stage.

Main Partner Green Innovation

EY Building a better
working world



Start-up Area

Hall 6.0

Young, innovative, different: The companies of tomorrow present their innovations in the Start-up Area and welcome the global process industry to their booths. As one of the central anchor points in the “Research and Innovation” exhibition group, the start-ups here show how science and technology, coupled with ambition and perseverance, can be turned into new services, profitable products and the latest processes. The Start-up Area is thus the central meeting point for young companies and innovation leaders in search of synergies and cooperation, as well as for all participants interested in new trends.

Partner of the Start-Up Area

Action Area Digital Lab

Hall 4.1

A total of six use cases for the connected and digitalized laboratory will be presented at the Digital Lab Action Area – the smart lab of tomorrow to experience, touch and try out. Equipment and software manufacturers will demonstrate cross-manufacturer digitalization solutions using relevant practical examples. The spectrum ranges from Cobot-assisted work processes for sample preparation and analysis, user-oriented process control with Laboratory Execution Systems, to horizontally and vertically connected yet modularly adaptable equipment solutions with the perspective of shared laboratory infrastructure and seamless integration between sample input and quality-assured analysis results. Innovative software and device solutions are supported by the Laboratory & Analytical Device Standard (LADS) for OPC UA.



Pharma Innovation Stage

Hall 3.0

The Pharma Innovation Stage focuses on the specific challenges of the fastest-growing user community. The stage, which is centrally integrated into the trade fair activities in Hall 3.0, offers numerous impulses from experts, users and solution providers in the industry in various formats.



In addition to the growing significance of digitalization and sustainability, the increasingly agile interaction with suppliers and the global reconfiguration of global value networks are on the agenda. The technical disciplines will also be highlighted in their pharma-specific manifestations: From development in the laboratory and plant engineering to production and manufacturing, quality assurance and packaging. All in all, a comprehensive pharma innovation update.

Theme Days

This year, for the first time, ACHEMA is fully integrating the Congress into the exhibition events: All lecture sessions will take place either on stages directly in the exhibition halls or close to the exhibition groups. This integration is underlined by the five theme days of the Congress. As a result, none of the topics driving the process industry will be omitted. Daily Highlight Sessions on the respective topics set additional accents.

Congress
language: English

You can find the latest program
and lecture details at
www.chema.de/congress
and in the app.



Monday

HYDROGEN ECONOMY

Hydrogen will play a central role in transforming the process industry, the transportation sector and the energy system toward future greenhouse gas neutrality. The gas can be produced by a variety of processes, each of which is assigned its own color. The process industry is already the main user of hydrogen, whose potential is far from exhausted. ACHEMA will address this topic during the Congress and in a Highlight Session.

» **Highlight Session: Hydrogen: unlocking the future potential**
Monday, 22 August 2022, 13:30 h, Hall 4.0, Room Europa

Tuesday

FOSSIL-FREE PRODUCTION

Fossil-free production is an important and ambitious goal for reducing greenhouse gas emissions in the process industry and a promising way to become largely independent of fossil raw materials. Electrification, the use of alternative carbon sources such as CO₂ or biogas, and the establishment of a circular economy remain major challenges on the process industries' climate agenda. The idea of fossil-free production, while simple, holds many unanswered questions. At ACHEMA 2022 you will learn which approaches to solutions are being discussed.

» **Highlight Session: Fossil-free production**
Tuesday, 23 August 2022, 13:30 h, Hall 4.0, Room Europa

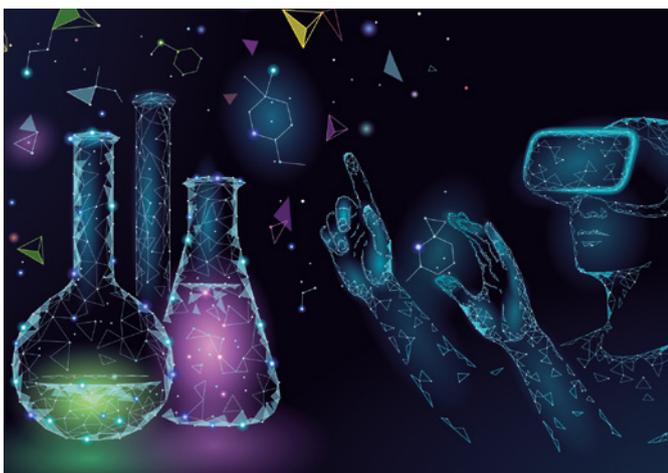


Wednesday

PERSPECTIVES IN LABORATORY AND ANALYTICS

It's a long way from the latest scientific advances in preparation and analysis technology to market implementation. Data from all areas of research and production converge in the laboratory. Modular, automated and fully connected, the digital laboratory is a central component for process development and quality assurance. The Highlight Session and the Congress will complement your visit to ACHEMA on this topic.

» **Highlight Session: Laboratory and analytical techniques**
Wednesday, 24 August 2022, 13:30 h, Hall 4.0, Room Europa



Highlight Sessions

Hydrogen economy, fossil-free production, perspectives in laboratory and analytics, digitalization, novel bioprocesses and technologies – the challenges for the process industry are multi-layered when it comes to these core topics. That's why thought leaders, users and technology providers will discuss where we are today and what the process industry can expect in the future in five highlight sessions. Join us and be part of this exciting discussion!



Thursday

DIGITALIZATION IN THE PROCESS INDUSTRY

“Data is the new gold” is a much-used phrase. But how can this treasure be harnessed, and more importantly, how can data be used in business models? Artificial intelligence can make big data usable. Augmented reality brings data and the physical plant together. Blockchain can be used to organize supply chains efficiently. Data security must not be forgotten here. These topics are all covered in presentations, special sessions, and the Digital Hub.

» **Highlight Session: Digitalization in process industries**
Thursday, 25 August 2022, 13:30 h, Hall 4.0, Room Europa



Friday

NOVEL BIOPROCESSES AND TECHNOLOGIES

New biopharmaceuticals, bio-based fine chemicals or biotechnological recycling all require new (production) processes. A thriving circular economy that realizes the Sustainable Development Goals is inconceivable without innovative technologies: More than anything else, synthetic biology, automated laboratory technologies, integrated bioprocesses, innovative bioreactor concepts, novel downstream technologies and advanced modeling are driving change.ACHEMA 2022 will be the global showcase for these exciting developments. Learn about new concepts, technologies as well as solutions and exchange ideas with your colleagues from around the world.

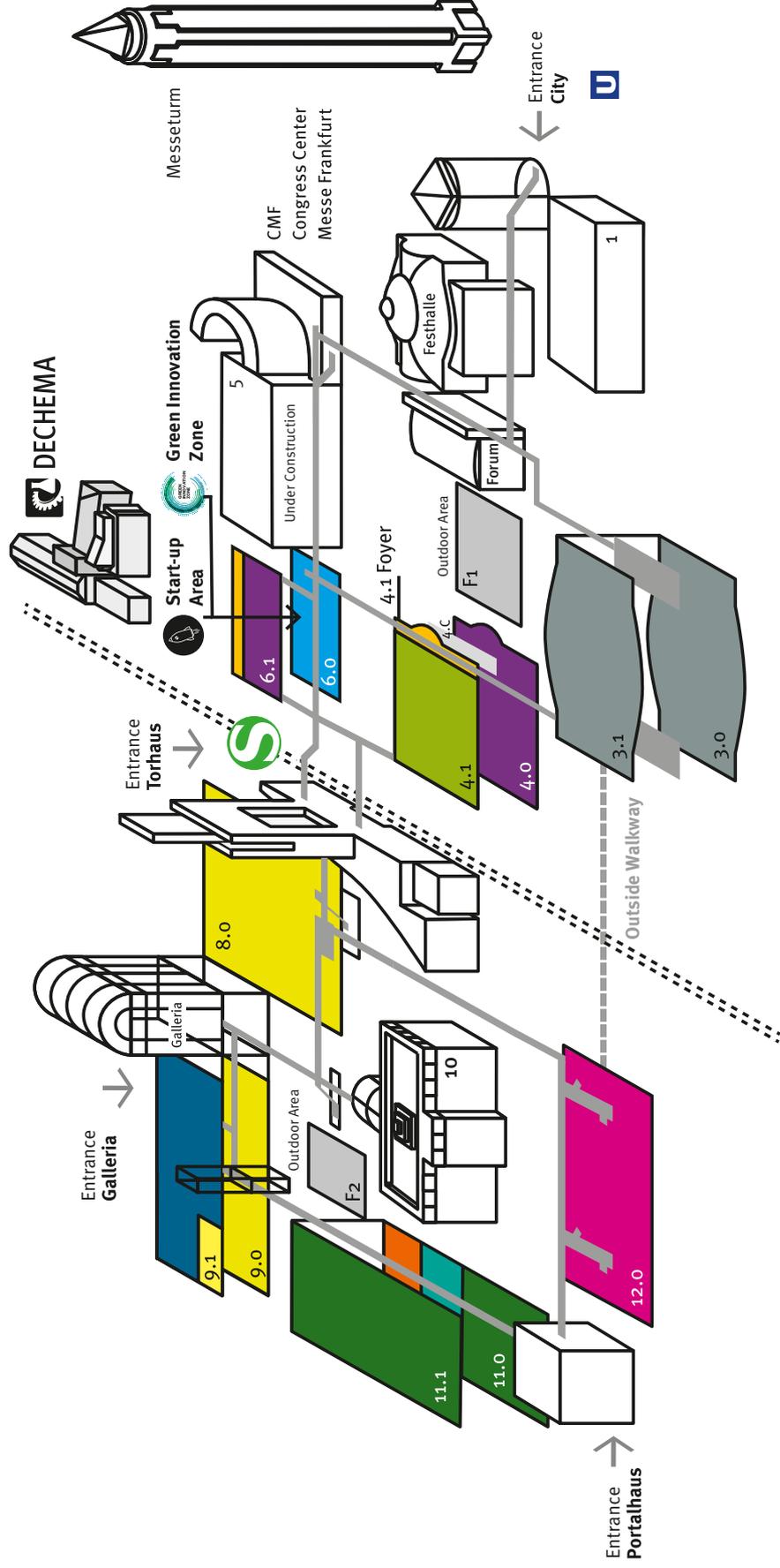
» **Highlight Session: Novel bioprocesses and technologies**
Friday, 26 August 2022, 10:30 h, Hall 4.0, Room Europa



Congress Topics

| Exhibition Groups | Congress Topics | Dates | | | | | |
|--|--|------------------------|-------|-------|-------|-------|--|
| | | Mo 22 | Tu 23 | We 24 | Th 25 | Fr 26 | |
| | Additive manufacturing | ■ | | | | | |
| | (Bio)Pharma meets production | | | ■ | ■ | ■ | |
| | Carbon neutral production sites | | ■ | | | | |
| | Chemical recycling | | ■ | | ■ | | |
| | CO ₂ as a sustainable source of carbon | | ■ | | | | |
| | Energy flexible factories | | | | | | |
| | Engineering | | | | ■ | | |
| | Flow chemistry symposium | | ■ | ■ | | | |
| | Fossil-free production | | | | ■ | ■ | |
| | Hydrogen: Unlocking the future potential | ■ | ■ | | | ■ | |
| | Industrialisation of water electrolysis for green hydrogen | ■ | | | | | |
| | Industrial water management | | | | | | |
| | Novel bioprocesses and technologies | ■ | ■ | ■ | ■ | ■ | |
| | Plant design and maintenance | | | | | | |
| | Polymers from renewable carbon sources | | ■ | | | | |
| | Power-to-X concepts and technologies | ■ | ■ | | | | |
| | | CDO talk | ■ | | | | |
| | | Data-driven innovation | | | | ■ | |
| Digital driving sustainability | | | | | | ■ | |
| Data integration in process industry summit | | | ■ | ■ | | | |
| Digitalization in process industry | | | ■ | ■ | ■ | | |
| Industrial intelligence and sensor-based process control | | | ■ | ■ | ■ | | |
| Industrial water management | | | | | ■ | | |
| Modular and connected production | | | | | ■ | | |
| Plant design and maintenance | | | | | ■ | | |
| The digital plant | | | ■ | | | | |
| | Bio-based economy | | | | | ■ | |
| | Circular economy | ■ | | ■ | ■ | | |
| | Hydrogen: Unlocking the future potential | ■ | ■ | | | | |
| | Industrialisation of water electrolysis for green hydrogen | ■ | | | | | |
| | International Powder and Nanotechnology Forum | | ■ | ■ | | | |
| | Research and innovation | | | | ■ | ■ | |
| | Laboratory and analytical techniques | | ■ | ■ | ■ | | |
| | Sustainable laboratory | | | | ■ | | |
| | The digital lab | ■ | ■ | ■ | ■ | ■ | |

| Exhibition Groups | Congress Topics | Dates | | | | |
|--------------------------------------|--|-------|-------|-------|-------|-------|
| | | Mo 22 | Tu 23 | We 24 | Th 25 | Fr 26 |
| | Innovative mixing and separation solutions | | ■ | | ■ | |
| | Innovative product design in mechanical process engineering | | | ■ | | |
| | Inorganic raw materials in a circular economy | ■ | | | | |
| | International Powder and Nanotechnology Forum | | ■ | ■ | | |
| | Mechanical processes | | | | ■ | |
| | Industrial intelligence and sensor-based process control | | ■ | ■ | ■ | |
| | Instrumentation, control and automation techniques | | ■ | | | |
| | Modular production – a paradigm shift for the process industry | | ■ | ■ | ■ | |
| | Pharmaceutical, packaging and storage techniques | | ■ | | | |
| | (Bio)Pharma meets production | | | | ■ | ■ |
| | Pharma innovation update | ■ | ■ | ■ | ■ | |
| | Pumps, compressors, valves and fittings | | ■ | ■ | ■ | |
| | State of the art in fluid handling | | | | ■ | |
| | Industrial and labour safety | | ■ | ■ | | |
| | Process safety | ■ | ■ | | | |
| | Safety and security | | | | ■ | ■ |
| | Using resources adequately for safety | | ■ | | | |
| | Bioprocessing: bioreactors, process development and control | | | | | ■ |
| | Biorefineries in the circular bioeconomy | | | | | ■ |
| | Extraction | | | | | ■ |
| | Hydrogen: Unlocking the future potential | ■ | ■ | | | |
| | Innovative product design in process engineering | | | | ■ | |
| | Membranes and membrane processes | | | | ■ | |
| | Novel bioprocesses and technologies | | | | ■ | ■ |
| Power-to-X concepts and technologies | ■ | ■ | | | | |
| | Thermal processes | | | | ■ | |
| | Additive manufacturing | ■ | | | | |
| | Materials and material processing | | | | ■ | |
| | Materials technology and testing | | ■ | | | |

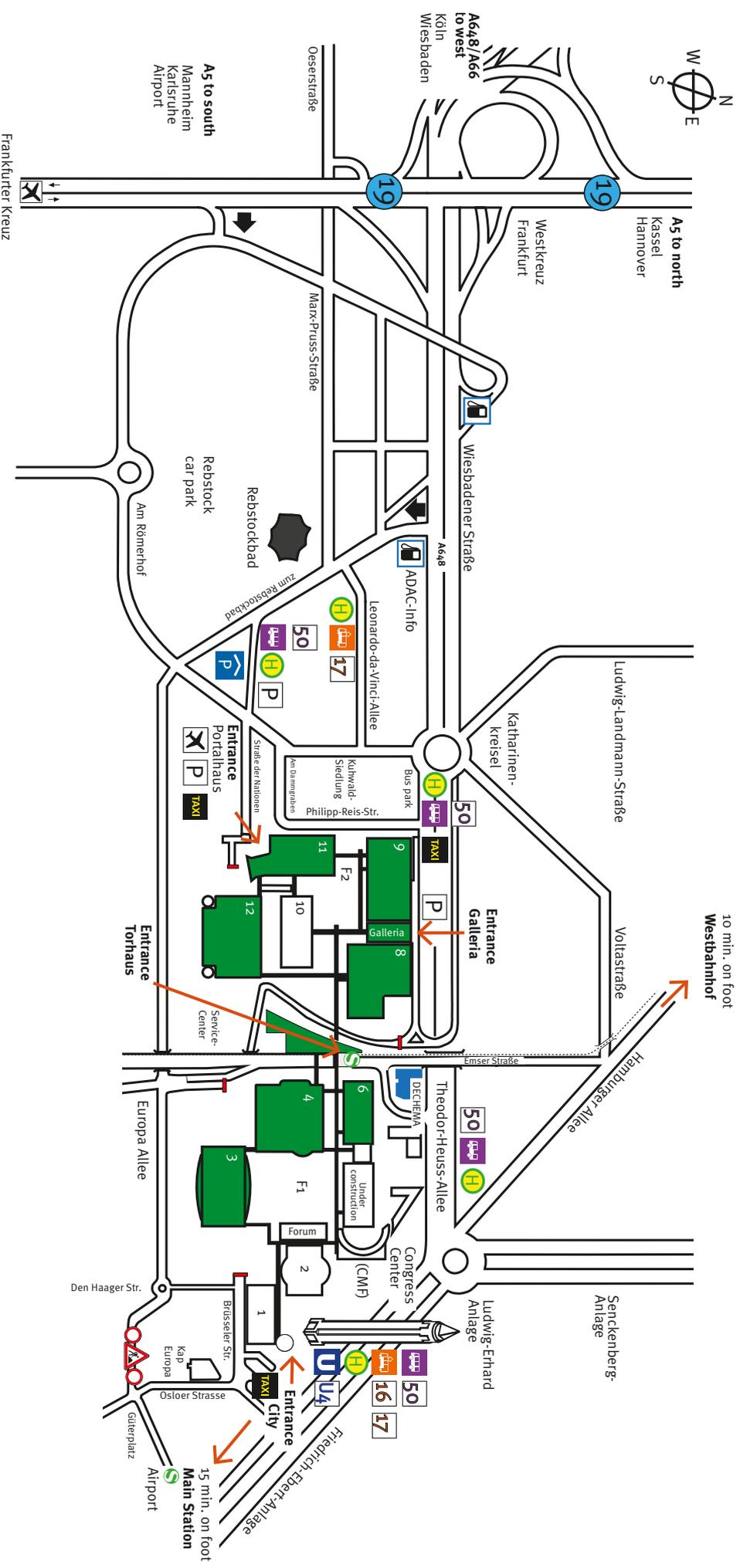


EXHIBITION GROUPS

- | | | | |
|--|---|--|--|
|  Engineering 9.1 |  Laboratory and Analytical Techniques 4.1 |  Instrumentation, Control and Automation Techniques 11.0, 11.1 |  Industrial and Labour Safety 9.1 |
|  Digital Hub 11.0 |  Literature, Information, Learning and Teaching Aids 4.1 Foyer, 6.1 |  Pharmaceutical, Packaging and Storage Techniques 3.0, 3.1 |  Thermal Processes 4.0, 6.1 |
|  Research and Innovation 6.0 |  Mechanical Processes 12.0 |  Pumps, Compressors, Valves and Fittings 8.0, 9.0 |  Materials Technology and Testing 11.0 |

| | | Room/Stage | Expert Forum | Siemens Digital Innovation Stage | Granat | Karmesin | Korall | Discussion Corner | Logos | Genios | Esprit | Motiv | Sy | |
|--|-----------|----------------------|--|---|---|--|--|---|---|--|--|---|--|--|
| | | Hall | 12.0 | 11.0 | 11.0 | 11.0 | 11.0 | 9.1 | 9.1 | 9.1 | 9.1 | 9.1 | | |
| Hydrogen economy | Morning | Monday, 22 August | Hall 4.0, Room Europa: Highlight Session Hydrogen: Unlocking the future potential | | | | | | | | | | | |
| | | | Topic | Inorganic raw materials in a circular economy | CDO talk | Additive manufacturing | | | Opportunities and challenges for the chemical industry in the industrial transformation | Industrial water management | New Power-to-X concepts and technologies | CCPS Process Safety – digitalization and cyber security 1 | | |
| | | | Session title | Closing inorganic raw materials cycles with novel technologies and concepts | Digital transformation in process industries | | | Kopernikus project Ariadne | Water treatment | Power-to-X processes | | | | |
| | | | 17:00 h | Forum, Level 1: Opening Climate-neutral chemical industry 2050 | | | | | | | | | | |
| Fossil-free production | Morning | Tuesday, 23 August | Topic | Innovative mixing and separation solutions | The digital plant | Instrumentation, control and automation techniques | Digitalization in the process industry | Materials technology and testing | Exploration, validation and implementation of Power-to-X concepts | Industrial water management | Using resources adequately for safety – efficiency of safety studies and safety design | CCPS Process Safety – digitalization and cyber security 2 | Engineering | |
| | | | Session title | Adsorption and multiphase operations I | Digital operations and predictive maintenance | Sensor connectivity and protection | Digital infrastructure | | Kopernikus project P2X | Enhanced water treatment | | | Engineering – modules, reactors and plants | |
| | Afternoon | Tuesday, 23 August | Hall 4.0, Room Europa: Highlight Session Fossil-free production | | | | | | | | | | | |
| | | | Topic | Innovative mixing and separation solutions | The digital plant | Instrumentation, control and automation techniques | Industrial intelligence and sensor-based process control | Symposium VDM Metals | Modular production – a paradigm shift for the process industry | Industrial water management | Carbon economy of carbon materials – chemical recycling | EPSC – European Process Safety Centre | TransHyDE – Hydrogen transport infrastructure | |
| Perspectives in laboratory and analytics | Morning | Wednesday, 24 August | Topic | Mechanical processes | Modular and connected production | Industrial intelligence and sensor-based process control | Modular production – a paradigm shift for the process industry | Materials and material processing | Flow Chemistry Symposium | Engineering | Safety and security | Digitalization in the process industry | Modular production – a paradigm shift for the process industry | |
| | | | Session title | | Expert insights and best practice reports | Process analytical technology | Modular plants and automation | Coatings and particles | | Engineering – pharma and chemical applications | Safety and security I | Application and implementation | Application concepts | |
| | Afternoon | Wednesday, 24 August | Hall 4.0, Room Europa: Highlight Session Laboratory and analytical techniques | | | | | | | | | | | |
| | | | Topic | Innovative product design in mechanical process engineering | Modular and connected production | Industrial intelligence and sensor-based process control | Modular production – a paradigm shift for the process industry | Materials and material processing | Flow Chemistry Symposium | Modular production – a paradigm shift for the process industry | Industrial and labour safety | Plant design and maintenance | Industrial water management | |
| Digitalization in process industries | Morning | Thursday, 25 August | Topic | Innovative mixing and separation solutions | Data-driven innovation | Industrial intelligence and sensor-based process control | | Digitalization in process industry | Flow Chemistry Symposium | Plant design and maintenance | Safety and security | | Technology deployment @ Evonik | |
| | | | Session title | | Digital twins in engineering | Optical sensors and imaging | | Digital twin | | Maintenance in process industry | Safety and security II | | | |
| | Afternoon | Thursday, 25 August | Hall 4.0, Room Europa: Highlight Session Digitalization in process industries | | | | | | | | | | | |
| | | | Topic | Trends in national BMBF funded research | Data-driven innovation | Industrial intelligence and sensor-based process control | | Digitalization in process industry | Flow Chemistry Symposium | Plant design and maintenance | Plant design and maintenance | | Modular production – a paradigm shift for the process industry | |
| Novel bioprocesses and technologies | Morning | Friday, 26 August | Hall 4.0, Room Europa: Highlight Session Novel bioprocesses and technologies | | | | | | | | | | | |
| | | | Topic | | Digital driving sustainability | | | Bioprocessing: Bioreactors, process development and control | Informations-plattform für Ingenieure in der Produktion | The role of biorefineries in the circular bioeconomy | The role of biorefineries in the circular bioeconomy | | | |
| | | | Session title | | Innovative start-ups, expert insights and best practice reports | | | Digital sensors and concepts | (in German only) – from 10:30 h | Biorefinery concepts for value creation from residual biomass | Biorefinery processes for the valorization of side streams | | | |
| | | | | | | | | | | | | | | |

| metrie 2/3 | Transparenz 1 | EY Innovation Stage | Europa | Consens | Entente | Alliance | Concorde | Action Area Digital Lab | Pharma Innovation Stage | Max-Buchner-Auditorium | Side Events |
|---|--|---|---|---|---|---|---|---|--|---|---|
| 8.1 | Portalhaus | 6.0 | 4.0 | 4.C | 4.C | 4.C | 4.C | 4.1 | 3.0 | DECHEMA | |
| Hall 4.0, Room Europa: Highlight Session Hydrogen: Unlocking the future potential | | | | | | | | | | | <p>9:00 h Innovation Challenge "Plant Service Robot" Hall 11.0, Stand E27 (all day)</p> <p>11:00 h Automation in Dialog Hall 11.0, Stand E15</p> |
| | | Hydrogen economy Green, turquoise, blue: Unlocking the future potential | Making hydrogen sustainable – an offshore approach Flagship project H ₂ Mare | Industrialisation of water electrolysis for green hydrogen on a gigawatt scale Flagship project H ₂ Giga | Hydrogen: Unlocking the future potential Transport and infrastructure for hydrogen | Hydrogen: Unlocking the future potential Handling of hydrogen | Hydrogen: Unlocking the future potential Materials for hydrogen | The digital lab Use cases, expert insights and best practices reports | Pharma innovation update Expert insights and best practice reports | 2nd Sustainability Session – Circular Plastic (14:00 – 16:00 h) Organized by Young Chemists Network (ICF) of the German Chemical Society (GDCh) | |
| Forum, Level 1: Opening Climate-neutral chemical industry 2050 | | | | | | | | | | | |
| Pumps, compressors, valves and fittings | Data integration in process industry summit (DEXPI Group) | Fossil-free production Expert insights and best practice reports for climate neutrality | Carbon-neutral production sites On the pathway to decarbonise the process industry I | Carbon2Chem® – building block for climate protection | InnovAAMix: Innovative equipment technologies for mixture evaporation and condensation in the process industries | Carbon-neutral production sites Novel processes to reduce CO ₂ emissions | Polymers from renewable carbon sources for circular economy | Laboratory and analytical techniques Laboratory equipment and automation | Pharmaceutical, packaging and storage techniques | International Powder and Nanotechnology Forum 2022 Nanotechnology | <p>9:00 h Innovation Challenge "Plant Service Robot" Hall 11.0, Stand E27 (all day)</p> <p>11:00 h Automation in Dialog Hall 11.0, Stand E15</p> <p>16:00 h India Day Portalhaus, Level 1, Transparenz 2</p> |
| Flow trends for pumps | | | | | | | | | | | |
| Hall 4.0, Room Europa: Highlight Session Fossil-free production | | | | | | | | | | | |
| | Data integration in process industry summit (DEXPI Group) | Fossil-free production Expert insights and best practice reports for climate neutrality | Carbon-neutral production sites On the pathway to decarbonise the process industry II | Carbon2Chem® – research and development | CO₂-WIN: CO₂ as a sustainable source of carbon – pathways to industrial application | Carbon-neutral production sites CO ₂ conversion | International perspective on Power-to-X | The digital lab Use cases, expert insights and best practices reports | Pharma innovation update Expert insights and best practice reports | International Powder and Nanotechnology Forum 2022 Crystallisation | <p>17:30 h Japanese Reception Hall 4.C, Concorde</p> |
| Pumps, compressors, valves and fittings | Data integration in process industry summit (DEXPI Group) | Start-up day Start-up pitches and expert discussions | Innovative product design in process engineering Innovative heat transfer equipment | Research and innovation Research and innovation I | The EGNATON guide to the sustainable laboratory | Strategies for a circular economy in plastics (9:45 – 18:00 h) | | The digital lab: miniaturised, automated, digitalized | (Bio)Pharma meets production Innovative production | International Powder and Nanotechnology Forum 2022 Joint session of pharmaceutical and simulation | <p>9:00 h Innovation Challenge "Plant Service Robot" Hall 11.0, Stand E27 (all day)</p> <p>11:00 h Automation in Dialog Hall 11.0, Stand E15</p> |
| Flow trends for seals | | | | | | | | | | | |
| Hall 4.0, Room Europa: Highlight Session Laboratory and analytical techniques | | | | | | | | | | | <p>17:00 h ACHEMA Start-up Award ceremony Hall 6.0, EY Innovation Stage</p> <p>17:15 h Spanish Reception Hall 4.C, Concorde</p> |
| | Data integration in process industry summit (DEXPI Group) | Start-up day ACHEMA Start-up Award forum & ceremony | Thermal processes | Energy flexible factories as an opportunity for industry Kopernikus project SynErgie | The EGNATON guide to the sustainable laboratory | Strategies for a circular economy in plastics (9:45 – 18:00 h) | | The digital lab Use cases, expert insights and best practices reports | Pharma innovation update Expert insights and best practice reports | | |
| Pumps, compressors, valves and fittings: State of the art in fluid handling | | Circular economy Keynote by Dr. Klaus Schäfer, CTO Covestro, followed by expert insights and best practice report | Career Forum | Circular economy of carbon materials – chemical recycling Aspects of circular economy and resource efficiency | Research and innovation Research and innovation II | | | Laboratory and analytical techniques Analytical techniques | (Bio)Pharma meets production Modular plant concepts | CAFIPLA – Better ways for biowaste How to improve valorisation processes for bio-based products | <p>9:00 h Innovation Challenge "Plant Service Robot" Hall 11.0, Stand E27 (all day)</p> <p>11:00 h Automation in Dialog Hall 11.0, Stand E15</p> <p>11:00 h China Reception Portalhaus, Level 1, Transparenz 2</p> |
| Modeling tools and pressure relief | | | | | | | | | | | |
| Hall 4.0, Room Europa: Highlight Session Digitalization in process industries | | | | | | | | | | | <p>17:00 h ACHEMA Media Award Hall 6.0, EY Innovation Stage</p> |
| | | Circular economy Expert insights and best practice reports for closing the loops | Membranes and membrane processes | | | | | The digital lab Use cases, expert insights and best practices reports | Pharma innovation update Expert insights and best practice reports | CAFIPLA – better ways for biowaste How to improve valorization processes for bio-based products | |
| Hall 4.0, Room Europa: Highlight Session Novel bioprocesses and technologies | | | | | | | | | | | <p>9:00 h Innovation Challenge "Plant Service Robot" Hall 11.0, Stand E27 (all day)</p> |
| | | Bio-based economy Novel bioprocesses, technologies and business models | Bioprocessing: bioreactors, process development and control White biotechnology | Extraction | Bioprocessing: bioreactors, process development and control Modelling | | | Bioprocessing: bioreactors, process development and control Spectroscopy, microscopy and lighting | (Bio)Pharma meets production Downstream | | |



Public transport

-  Line S3, S4, S5, S6
-  Underground Line U4
Bockenheimer Warte – Enkheim
-  Line 16 Offenbach – Gimnheim
Line 17 Rebstockbad – Neu-Isenburg
-  Line 50
Unterliederbach West – Bockenheimer Warte
-  Express bus airport – entrance Portahaus
-  Shuttle bus Rebstock car park – exhibition grounds
-  Taxi
-  Tram/Bus stop public transport
-  Access to car park

ACHEMA Start-up Award



» Wednesday, 24 August 2022, 14:00 h,
Hall 6.o, EY Innovation Stage

For the third time, entrepreneurial scientists, prospective founders and start-up owners were invited to submit an application for the ACHEMA Start-up Award – and for the first time on an international scale. A jury of experts selected the best 10 from more than 30 submissions. Selection criteria included the degree of innovation and robustness of the business plan.

You will meet the ten finalists of the ACHEMA Start-up Award in the Start-up Area and on 24 August 2022 at the Start-up Day during the Start-up Award pitches.

This is also where the three winners of the ACHEMA Start-up Award 2022 will be chosen.

These start-ups are bringing innovations to the process industry

- » Carbon Minds
- » Cenios
- » Esy-Labs
- » Lumatix Biotech
- » Optoquant
- » Phaidra
- » PipePredict
- » Pramo Molecular
- » Prosion
- » Semodia

Initiators



Premium Partner



Career Forum

» Thursday, 25 August 2022, 10:30 h,
Hall 4.o, Room Europa

Looking for a direct entry or trainee program with a top employer in the process industry? Interested in an exciting internship in the field of plant engineering, process engineering or materials technology? The Career Forum opens up opportunities and contacts with attractive employers and highlights career paths in the process industry.



ACHEMA Study Courses

Students from technical colleges, higher education institutions and universities (including Ph.D. students) can experience the full range of process technology at ACHEMA, supported by DECHEMA. They can visit ACHEMA free of charge and apply for a travel allowance if they register as a group in advance and are accompanied by a lecturer from their university who will provide technical support for the group at ACHEMA.

For the latest information and to register for the study courses, visit: www.achema.de/study-courses. Registration is open until 8 July 2022.



Automation in Dialog

Hall 11.0



» Monday, 22 – Thursday, 25 August 2022

Off to ACHEMA 2022! We'll be there! ARC, NAMUR and ZVEI are organizing the forum "Automation in Dialog" at ACHEMA 2022. What does the future of modularization look like? What is NAMUR Open Architecture, and why is it key to the digitalization of the process industry? How do safety and security go together? Why do information models exist, and how do they accelerate our processes? These and many more questions are on the process industry's agenda, and we invite you to explore and discuss them with our experts. We look forward to seeing you there!

Further information:

www.achema.de/side-events

International Powder and Nanotechnology Forum (IPNF) 2022

DECHEMA-House



» Tuesday, 23 – Wednesday, 24 August 2022

IPNF has been promoting technology exchanges between Germany and Japan in a variety of industries, including the chemical and pharmaceutical industries, since 1998. The event is a joint initiative of the Society of Chemical Engineers, Japan (SCEJ) and DECHEMA, and will also be held at INCHEM 2023 in Tokyo.

This forum consists of three sessions in the following four subject areas: Particle design and novel formulation processes, fundamental technologies for the realization of cyber-physical systems in production processes for solid forms of administration, nanomaterial development and novel catalytic applications, and mass production of pure protein by crystallization.

Further information:

www.achema.de/side-events

ACHEMA Media Award 2022

Hall 6.0, EY Innovation Stage

» Thursday, 25 August 2022, 17:00 h

The 2022 ACHEMA Media Award will be awarded for journalistic articles from print, radio, television or the Internet that make scientific and technical topics accessible to a wider audience. The focus is on chemistry, process engineering and biotechnology, but also on related topics such as environmental technology. The main prize is worth 10,000 euros. The award ceremony will take place on 25 August 2022 at 5 p.m. on the EY Innovation Stage in Hall 6.0.



Information Platform for Plant Engineers

Hall 9.1, Discussion Corner



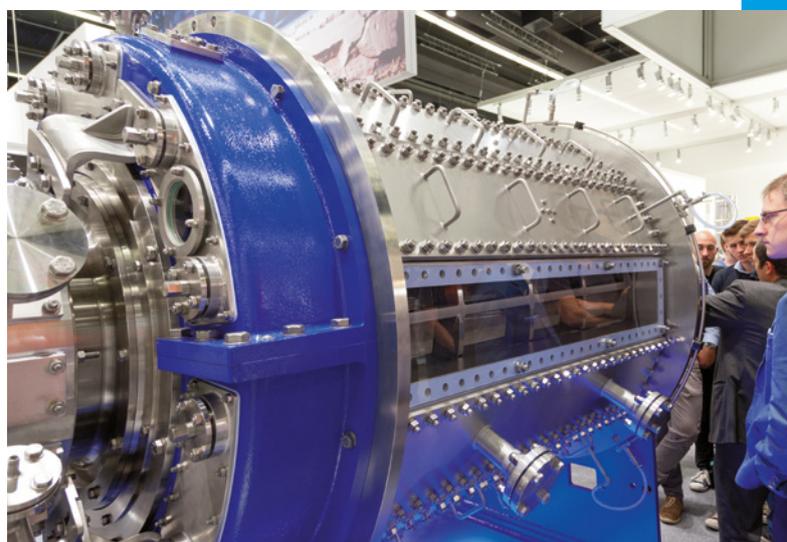
» Friday, 26 August 2022, 10:30 – 12:30 h

Production engineers are systemically relevant – and not just since Corona and interrupted supply chains. Production engineers guarantee the manufacture of important goods in the chemical and pharmaceutical industries. They bear a great responsibility for their plant and for safe and clean production with the best possible plant availability.

The “Information Platform for Production Engineers” is an initiative of the VDI Society for Process and Chemical Engineering (VDI-GVC), which deals with practice-oriented problems of production engineers relating to manufacturing plants. The concept is well established at Germany’s major chemical sites and, thanks to digital media, now facilitates a practice-oriented exchange of experience in the region and beyond. It will be presented and moderated by experts. Short contributions will be used to discuss current challenges faced by production engineers.

The event will be held in German. Further information:

www.achema.de/side-events



Strategies for a Circular Economy in Plastics: The Role of European Diversity

Hall 4.C, Room Alliance

» Wednesday, 24 August 2022, 9:45 – 18:00 h

In 2018, the EU adopted a European Strategy for Plastics to reduce plastic waste. This is intended to promote carbon neutrality and a circular economy to achieve the United Nations’ 2030 Sustainable Development Goals. The chemical industry has been forced to rethink and review its strategies in the polymer/plastics business. The plastics strategy aims to change the way polymers/plastics are developed, manufactured, applied and recycled. We therefore need joint efforts and collaboration between industry and the scientific community

by promoting discussions and building networks to solve the challenges of plastic waste. This event on the circular economy is organized by the Chemical and Business Association (VCW). The VCW is a forum where such discussions can be initiated, the current state of the art and success stories from industry and academia can be acknowledged.

Further information:

www.achema.de/side-events





Flow Chemistry Symposium

Hall 9.1, Discussion Corner

FLOW CHEMISTRY
PAVILION

» Wednesday, 24 – Thursday, 25 August 2022

This two-day technical symposium, organized by the Flow Chemistry Pavilion (Hall 9.1, E64), is dedicated to flow chemistry and acknowledges the increasing importance of this technology in research and production.

Join us to discuss the latest developments in continuous production, with solutions covering all aspects of upstream and downstream process technology – from fluid handling to reactor technology, product isolation, crystallization and digitalization.

The **#flowcommunity** is back!

More information at:

www.teknoscienze.com/achema-2022-flow-pavilion

Innovation Challenge “Plant Service Robot”

Hall 11.0, Stand E27

aira advanced
industrial
robotic
applications

» Monday, 22 – Friday, 26 August 2022

Appearing live at ACHEMA 2022, autonomous mobile robots will compete to capture sensor images, take samples, and negotiate industrial stairs. In cooperation with BASF, Bayer, Boehringer Ingelheim, Merck and Wacker Chemie, INVITE GmbH is conducting this open innovation challenge under the auspices of NAMUR.

The search is on for an autonomous service robot named Andy that can take over recurring tasks 24/7, such as safety patrols in chemical and pharmaceutical plants. Particular challenges include safely navigating through industrial facilities with obstacles, such as stairs, or accurately collecting data through image recognition of displays, as well as simple interactions. The underlying objective of the idea is to assist employees, increase safety and improve the availability of production facilities.

Six teams will participate with the latest walking robots from leading suppliers, as well as other innovative mobile platforms.

For more information on the participating teams, visit www.aira-challenge.com



Visitor Service

Opening Hours, Entrance Fees

| Opening Hours | Admission tickets | EUR |
|---|---|-------|
| » Monday, 22 August – Thursday, 25 August 2022 9:00 – 18:00 h for visitors 8:00 – 19:00 h for exhibitors | Season tickets (not transferable) | |
| | for employees in industry, trade and commerce | 90.00 |
| » Friday, 26 August 2022 9:00 – 16:00 h for visitors 8:00 – 19:00 h for exhibitors | for employees in universities, public authorities, associations | 60.00 |
| | Reduced season ticket for students, trainees, pupils, pensioners, unemployed and severely disabled | 30.00 |
| | Day tickets | |
| | Day ticket | 40.00 |
| | Reduced day ticket for students, trainees, pupils, pensioners, unemployed and severely disabled | 8.00 |
| | All tickets entitle the holder to visit the exhibition and the lecture program. Lost tickets cannot be replaced. | |
| | Please order season and day tickets at www.achema.de/visitors | |

ORDERING SEASON AND DAY TICKETS

You can order a season or day ticket conveniently on the Internet (www.achema.de/visitors).

Season and day tickets must be purchased online in advance.

Holders of reduced-price tickets for students, schoolchildren, trainees, the unemployed, the severely disabled and pensioners are requested to present the corresponding ID or proof of eligibility without being asked to do so upon entry.

Advance orders for season and day tickets are only possible for quantities of at least 20 tickets (orders to: tageskarten@achema.de).

To register “Study Course” participants, please see p. 21.

Payment for season and day tickets ordered online can be made by credit card (American Express, MasterCard, VISA) or PayPal. The ticket store uses the 3-D Secure process. After completing your order, you will receive your personal Print@home Ticket and Mobile Ticket for ACHEMA.

CANCELLATIONS

Season and day tickets cannot be returned or refunded.

ENTRANCES

- » City entrance (streetcar and subway (“U”) stop “Festhalle/ Messe”)
- » Torhaus (S-Bahn urban rail stop “Frankfurt/Main Messe”)
- » Galleria (multi-story parking lot and Rebstock large parking lot)
- » Portalhaus (multi-story parking lot and Rebstock large parking lot)

VISITOR INFORMATION

Tel.: +49 69 7564 750

Email: visitor@achema.de

Internet: www.achema.de/visitors (incl. FAQ)

LECTURE PROGRAM

Tel.: +49 69 7564 125

Email: lecture@achema.de

Internet: www.achema.de/congress

Congress office until 19 August 2022

DECHEMA e.V.

Tagungen

Theodor-Heuss-Allee 25

60486 Frankfurt am Main, Germany

Business hours:

Mon – Thu: 8:30 – 17:00 h

Fri: 8:30 – 15:00 h

Congress office and lecture management from 22 August 2022

Hall 4.0

Tel.: +49 69 7564 125

Business hours:

Mon – Thu: 8:00 – 18:00 h

Fri: 8:00 – 14:00 h

ACCOMMODATION

Room reservations for visitors to AACHEMA 2022 are made by Tourismus+Congress GmbH Frankfurt am Main (TCF).

Room reservations online at:

www.frankfurt-tourismus.de/hotel

Consultation and Booking

Tel.: +49 69 24 74 55 400

Email: info@infofrankfurt.de

Tourist Information

Frankfurt am Main (Central Station), Reception Hall

Opening hours

Mon – Fri: 8:00 – 21:00 h

Sat & Sun: 9:00 – 18:00 h

Travel agencies and contact addresses of international tour operators can be found at www.achema.de/travel-offers.

SERVICE FACILITIES

A hall overview and a plan indicating the service facilities will be available to all visitors at the entrances.

Mail and Shipping Service

Post Shop – DHL Trade Fairs & Events GmbH

Exhibition Grounds, Torhaus, Level 3

60327 Frankfurt am Main

Delivery and collection service, DHL Paket, DHL Express, DHL Brief

Opening hours:

22 – 26 August: 9:00 – 17:00 h

Email: express-service.fairs@dhl.com

Banks/Exchange Bureaus

In 2022, no banks will be available on the exhibition grounds.

ReiseBank AG, Frankfurt

Main station, exit south

Opening hours:

Daily: 8:00 – 19:00 h

ATMs

» City entrance, Level 0

» Hall 4.1, foyer

» Torhaus entrance, S-Bahn terminal

» Torhaus, Service Center, Level 3 (next to DHL service)

» Galleria entrance, Hall 9.T

» Portalhaus entrance, Hall 11

Interpreting Service

BBK-Gesellschaft für moderne Sprachen mbH

Tel.: +49 7274 702 770

Email: info@bbklinguages.com

Lufthansa

Lufthansa check-in and baggage service

at the City entrance, Level 0

Tel.: +49 69 86 799 799

Opening hours:

23 – 25 August: 8:00 – 17:00 h

26 August: 8:00 – 16:00 h

Shopping Facilities

» City entrance, trade fair shop

» Hall 4.0

» Hall 4.1 foyer, trade fair shop

» Torhaus, Service Center, Level 3

» Hall 9.0 foyer

CATALOG

The printed catalog is published at the start of the event and is available free of charge in the entrance areas of the exhibition grounds. Availability only as long as stocks last. The contents are summarized in one volume and include:

» Hall overview and site plan

» Alphabetical list of exhibitors

» Product brand directory

VISA ISSUANCE

Visitors from abroad requiring a visa to enter the Federal Republic of Germany can request a personal letter of invitation on the Internet at www.achema.de/visa-invitation. However, DECHEMA is generally unable to assume travel or accommodation costs.

Due to the high demand for visa appointments, a longer waiting time is to be expected at all German embassies.

When planning your trip, please take this into account and make an appointment with your embassy as soon as possible!

Email: visa@achema.de

Transport Connections

By Car:

The multi-story parking lot and the parking lots on the Rebstock grounds are easily accessible from the highway (day ticket for multi-story parking lot/parking lots: € 19.-/€ 14.-). During AICHEMA, a free shuttle bus runs from there to the exhibition grounds (Galleria and Portalhaus Hall 11 entrances) approximately every 5 – 10 minutes.

SHUTTLE BUS SERVICE TIMES

21 August: 8:00 – 22:00 h to the West Gate/South Gate
 22 – 25 August: 7:45 – 20:00 h
 26 August: 7:45 – 2:00 h
 (last departure in the direction of Rebstock)
 Use “Zum Messeparkhaus Rebstock” in your satellite navigation.

» **Site plan on page 20**

FRANKFURT AM MAIN LOW EMISSION ZONE

Since 1 January 2012, only vehicles displaying a green sticker have been allowed to enter the low emission zone. Vehicles from Germany and abroad with the corresponding emissions groups can obtain the required environmental sticker at www.umwelt-plakette.de.

Access to the exhibition grounds is possible for vehicles without an emissions sticker via the West Gate and the North Gate. These can be reached via the A5 and the A648, exit Rebstock or via the Katharinenkreisel (roundabout). The Rebstock multi-story parking lot can also be reached without an emissions sticker via the Rebstock exit.

CHARGING STATIONS

We can reserve a parking space with a power outlet for you on request. The availability of charging stations is still limited as the network is under construction, so please register early: emobil@messefrankfurt.com

By Plane:

There are daily direct flights to Frankfurt Airport (IATA-Code: FRA) from many cities and industrial centers. The fastest connections from the airport to the Frankfurt exhibition grounds are as follows:

- » S-Bahn urban rail lines S8 and S9 from the regional train station to the main train station.
- » By airport express bus from the airport Terminal 1 (arrivals level, charter bus lane stop) via Terminal 2 (bus stop in Exit E area) to the exhibition grounds (entrance Portalhaus Hall 11) and back.

The single fare is € 7.50.

Operating times airport » trade fair:

22 – 26 August: 8:00 – 12:00 h every 10 minutes

Operating times trade fair » airport:

22 – 26 August: 14:00 – 19:00 h every 10 minutes

SPECIAL RATES OFFERED BY LUFTHANSA GROUP AIRLINES

The Lufthansa Group Airlines connect people – every day, throughout the world. The global route network of Austrian Airlines, Lufthansa, SWISS, Brussels Airlines and Eurowings offers optimal connection and combination options. So you benefit from fast and direct flight connections to Frankfurt am Main for AICHEMA 2022.

Using the event code **DEAUPGN**, you can access the booking process via the link www.lufthansa.com/de/en/meetings-and-events-delegates. The discounted rates will be displayed automatically.

Please note: Pop-ups need to be enabled in your browser during the booking process. Otherwise, the window in the booking platform will not open.

Of course, you can also book through your IATA travel agency. By quoting the event code **DEAUPGN**, the travel agency can request the ticketing instructions by email to lufthansa.mobility@dlh.de

Lufthansa also offers check-in and baggage services on the fairgrounds (page 26).



DEUTSCHE BAHN – BEST PRICE

With the Deutsche Bahn event ticket, you can travel on long-distance trains using 100% eco-electricity and thus sustainably reduce the CO₂ emissions of your journey to ACHEMA 2022.

The nationwide standardized fixed prices for one-way travel are as follows:

- » Fixed train connection 2nd class: € 49.50 and 1st class: € 80.90
- » Without fixed train connection 2nd class: € 67.50 and 1st class: € 98.90

By Train:

Frankfurt Main Station is easy to reach by train. Information is available from all DB sales offices, from your travel agent or on the Internet www.bahn.de.

FROM THE MAIN STATION TO THE FRANKFURT TRADE FAIR

- » S-Bahn (lines S₃–S₆, departure from Frankfurt Hauptbahnhof underground platform 104) to the Messe stop (entrance Torhaus)
- » Streetcar lines 16 and 17 to Festhalle/Messe stop (City entrance)
- » U₄ subway line in the direction of Bockenheimer Warte to Festhalle/Messe stop (City entrance)
- » By foot approx. 15 minutes via Düsseldorfer Strasse and Platz der Republik to Friedrich-Ebert-Anlage (City entrance)

The prices are valid regardless of the DB station you depart from. The event ticket is valid on all ICE, EC/IC and local trains as well as S-Bahn trains operated by Deutsche Bahn.

The tickets are valid for a single round trip between 20 – 28 August 2022 and are valid for two days in each direction of travel.

The event tickets can be booked online:

www.achema.de/travel-information

If you have any questions about the booking process, please call the service number +49 (0) 30 586 020 901.

For schoolchildren and students up to and including the age of 27, the standard nationwide fixed prices for a single journey in 2nd class with a fixed train connection are € 40.50, and € 49.50 without a fixed connection.

Deutsche Bahn will be happy to provide you with the ticket price for international connections on request.



Health and Safety Concept



Please note that health and safety regulations may change at any time before the event:

You can find the latest information at
www.achema.de/health-and-safety

We make the AACHEMA participation particularly safe for you – with a professional and proven health and safety concept for all participants.

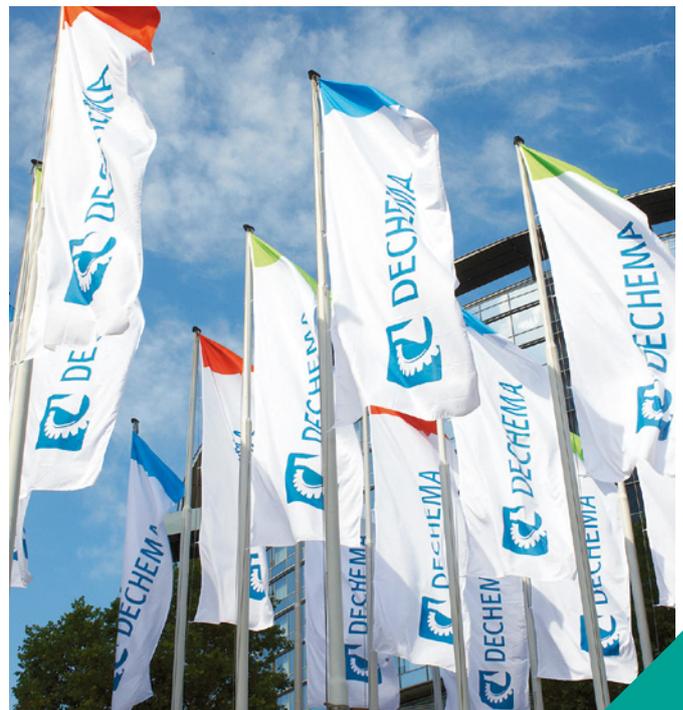
Together with Messe Frankfurt, we are taking a series of measures that are seamlessly coordinated and enable the core of AACHEMA, personal contacts, to take place safely and promisingly – regardless of the further course of the pandemic.

Online ticketing, an adequate and optimized mix of fresh air, spacious hall layout, optimised visitor flow management, safe catering concepts, disinfection stations covering the entire area, consistent cleaning and disinfection of contact surfaces as well as sanitary rooms and much more: many measures that we are now familiar with in everyday life also create the framework for a safe and successful AACHEMA during the exhibition days.

At the time of printing of this brochure there will be no access restrictions to AACHEMA. However, to further increase your personal protection, we currently recommend that you wear a mouth-nose protection in indoor areas as the situation requires.

EXHIBITING SAFELY

At each exhibition stand and in all lecture areas the conditions for a safe personal exchange as well as promising business contacts will be created, considering the health and safety regulations in force at the time of the event. We support our exhibitors in this and advise on any adapted stand construction guidelines for stand design and operation.



Frankfurt am Main – More than a Financial Center and Trade Show Metropolis

Experience Frankfurt from its recreational side! Discover the city's historical and contemporary sights. Or just escape the hustle and bustle of the trade show for the summery flair of the River Main's banks. All this is hardly more than a stone's throw away from Frankfurt's exhibition grounds!

Details at www.frankfurt-tourismus.de



City Tour: Frankfurt's New Old Town and Other Highlights

» Daily at 14:00 h as a guided tour by #visitfrankfurt.

Explore sights like the new Old Town, the Römerberg historical square, the Cathedral or St. Paul's Church and enjoy the view of the Frankfurt skyline from the banks of the River Main!

Meeting point: In front of the Römer Tourist Information

Boat Tour

The daily Primus Line boat trips pass through Frankfurt upstream towards Gerbermühle and back downstream. The journey time is 50 minutes one way, both trips combined: 100 minutes.

The classic round trip.

Meeting point: Primus-Line pier, Eiserner Steg

Museumsuferfest (Museum Embankment Festival)

26 – 28 August 2022

Art, culture and music come together for three days in one big, spectacular festival. With an extraordinary range of programs offered by Frankfurt's museums, numerous stage productions and shows, the Museumsuferfest is one of Europe's largest cultural festivals. The festival ends with a gigantic musical fireworks display.

Venue: Museum embankment Frankfurt

» www.museumsuferfest.de



New Old Town, Café Goldene Waage

Sights in Brief

Römerberg, Ostzeile and Old Nikolai Church

Historic city center, Gerechtigkeitsbrunnen (Fountain of Justice) in the center, reconstructed Ostzeile (eastern row), court and council chapel. For centuries, the square served as a place for markets, fairs, tournaments, festivals and as a place of execution.

Römer (City Hall)

Patrician house with three stepped gables, site of negotiations for the election of the emperor. City hall since 1405.

New Old Town

Reconstruction of the Old Town based on the historical town layout, Coronation Way from the Römer to the Cathedral.

Imperial Cathedral

Gothic cathedral, dedicated to St. Bartholomew. Due to the Golden Bull, place of election of Roman kings since 1356.

Paulskirche (St. Paul's Church)

Consecrated as a Protestant church in 1833. The first German National Assembly was held there in 1848. Now used as an event venue for the city.

Carmelite Monastery

Monastery complex from the 13th century, today Institute for City History and Archaeological Museum. Noteworthy frescoes (in the cloister) from the 16th century.

Eiserner Steg (Iron Footbridge)

Built in 1868, the bridge connects the old town with the Sachsenhausen quarter. The pedestrian bridge offers a great view of the skyline and the museum embankment. Jetty for boat tours.

Hauptwache (Main Guardroom)

Originally the guard building of the Frankfurt police, where notorious bandit chief "Schinderhannes" was also imprisoned. A café since 1904 and a good place to start a shopping tour of the Zeil, Goethestraße or Freßgass'.

Stock Exchange

Built in the 19th century, second-largest stock exchange in Europe, with "Bull and Bear" sculpture in front.

Alte Oper (Old Opera House)

Significant concert and congress hall, built in the 19th century, destroyed in the 2nd World War, reconstructed in 1981.

Main Tower

with viewing platform at a height of 200 meters.

Palmengarten (Palm Garden)

The Palmengarten is Frankfurt's most popular green retreat. It combines the preservation of biodiversity with the presentation of plants from all over the world. More than 13,000 subtropical and tropical species are displayed in the greenhouses of the sprawling park. The new flower and butterfly house is a particular highlight.

Senckenberg Natural History Museum

The Senckenberg is one of the largest natural history museums in Germany and presents the development of life and its diversity in a tangible way. In addition to the countless, sometimes unique exhibits from the world of mammals, insects and fish, the free-standing dinosaur skeletons in particular delight visitors young and old.



Alte Oper



Palmengarten



Römer

TOURIST INFORMATION

Tourist Information Main Station
Entrance Hall

- » Monday – Friday 8:00 – 21:00 h
- » Saturday – Sunday 9:00 – 18:00 h

Tourist Information Römer
Römerberg 27

- » Monday – Friday 9:30 – 17:30 h
- » Saturday – Sunday 9:30 – 16:00 h
- » Tel.: +49 69 24 74 55 400
- » Email: info@infofrankfurt.de



Dates and Services for Journalists

All information – press releases, images and logos, current dates – as well as accreditation can be found at www.achema.de/press or during ACHEMA in the ACHEMA Press Center.

ACHEMA Media Insights

» Tuesday, 3 May 2022, 10:00 – 13:00 h
virtual

Industry representatives and exhibitors inform you about ACHEMA 2022 – experience your first insights into the exhibition virtually with us.

Opening Press Conference

» Monday, 22 August 2022, 10:00 h
Forum, Level 1

Facts and figures at ACHEMA's launch: What can exhibitors and visitors expect? Which trends will determine what happens at the stands and on the stages of the exhibition halls?

Press Breakfast

» Wednesday, 24 August 2022, 10:00 h
ACHEMA Press Center, Torhaus, Level 4

Organizers and industry representatives discuss moods and trends at the halfway point of ACHEMA.



ACHEMA PRESS CENTER

Torhaus, Level 4

» Monday, 22 August –
Thursday, 25 August 2022,
8:30 – 18:30 h
» Friday, 26 August 2022, 8:30 – 14:00 h

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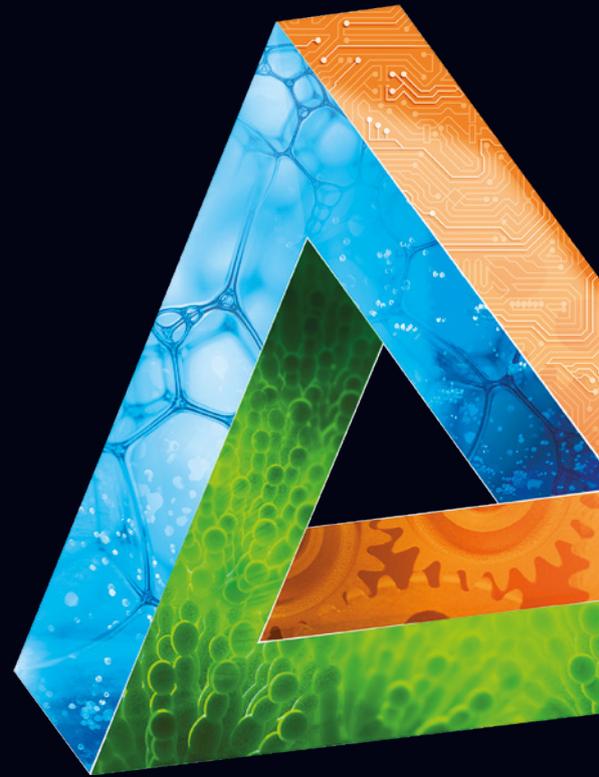
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