

# ACHEMA 2018

PROGRAMME

11 – 15 June 2018

Frankfurt am Main, Germany

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Ausstellungs-GmbH

and

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**Frankfurt am Main**  
**11 – 15 June 2018**

**ACHEMA 2018**  
**World Forum and 32nd Leading Show for**  
**the Process Industries**

752nd Event of the European  
 Federation of Chemical Engineering

430th Event of the European  
 Federation of Corrosion

Event of the European  
 Federation of Biotechnology

The process industries are the innovation drivers of the world economy and pacemakers for a wide range of industrial sectors. Practically all global value chains profit in one way or another from the achievements of chemistry, biotechnology, and process engineering.

ACHEMA is, was and always will be the central arena of the process industries. Nowhere else is the heartbeat of our industry more rapid, intense, up-to-date, innovative and international than here. ACHEMA is *the* trail-blazing show for all areas of the process industries, offering a panorama of up-to-date technology trends and a technology platform with a worldwide signalling impact.

Around 3,800 exhibitors from all over the world document the innovative power and dynamic thrust of the process industries with an impressive array of future-oriented developments, product ideas and services.

ACHEMA 2018 homes in on not just one, but three cutting-edge focal topics: *Flexible Production* is the process industries' response to Industry 4.0; *Biotech for Chemistry* stands for the merging of chemical and biotechnological processes; while the focal topic *Chemical and Pharmaceutical Logistics* epitomizes the paradigm shift of the supply chain enabled by digitization.

As the world's unrivalled show of the latest technology trends in our sector, ACHEMA is not only a must-attend event, but also a source of inspiration for all the movers and shakers in the world of the process industries.

Join us in June 2018 when, for a week, Frankfurt am Main will once again be the chemical capital of the world!

We are delighted to invite you to the 32nd ACHEMA and look forward to welcoming you to Frankfurt am Main in June.



Prof. Dr. Rainer Diercks  
 Chairman  
 DECHEMA e.V.



Jürgen Nowicki  
 Chairman  
 ACHEMA Committee



Prof. Dr. Kurt Wagemann  
 Chief Executive  
 DECHEMA e.V.



Dr. Thomas Scheuring  
 CEO  
 DECHEMA Ausstellungs-GmbH

### » Focal topics

*are identified anew for every AICHEM. They feature topics that are currently trending in the industry. Look out for the icons on the website, in the app and on-site on the aisle floors. Whenever you step on a floor graphic you will be standing right in front of the stand of a company offering products or services related to one of the focal topics.*



### Biotech for Chemistry

Biotechnology or chemistry? For years this was a question of principle when it came to producing active pharmaceutical ingredients, polymers or fuels. Mineral oil is cheaper, but microbial pathways are more specific. Renewable resources make for a better carbon footprint but the quality is not as consistent as that of fossils.

The times of either/or they are a-changing as, in the bioeconomy, more and more processes now use the best of both worlds. Anything goes if it is technically feasible.

“Biotech for Chemistry” covers the path from gene to process to product and focuses on the growing integration of chemical and biotechnological processes.

#BioForChem



### Chemical and Pharmaceutical Logistics

Storing chemicals and pharmaceuticals and moving them from A to B is a complex task. Handling hazardous goods and sensitive active ingredients is highly regulated in regard to storage and transport. How the flow of material is controlled within the plant is the responsibility of the company, but inbound and outbound transport is often taken care of by service providers. The latter are increasingly becoming system partners with higher-level solutions – the digitization of the logistics chain opens up new paths in supply chain management and distribution.

The focal topic “Chemical and Pharmaceutical Logistics” highlights the whole supply chain from intralogistics to intermodal transport.

#PharmaChemLog



### Flexible Production

If you want to compete in the dynamic world markets, flexibility is key – in every respect. Smaller batches, more specialized products, faster cycles: In the end, the quality needs to be right – and the digital integration of the value chain makes it possible.

Quick and flexible performance means reducing the complexity of production, and this can be achieved best with modular plants. Modularizing monolithic plants as an afterthought is one of the big challenges facing process technology today. To make matters even more complex there are high demands on automation to get the process up and running quickly in terms of plug-and-produce. The focal topic “Flexible Production” highlights the current status of Industry 4.0 in process technology and shows where the market is headed.

#FlexProd



## » Congress Topics

Industrial water management  
 Future energy supply and storage  
 PtX/ CO2 utilization  
 Utilization of biomass  
 Raw materials and alternative feedstocks

Laboratory and analytical techniques  
 Lab of the future

Chemical engineering  
 Additive manufacturing  
 Plant operation, control and optimization  
 Process design and modelling /simulation  
 Reaction technology/reactor concepts  
 Flow chemistry  
 Phytoextraction and technology  
 Mixing and separation technology

Chromatography  
 Computational fluid dynamics (CFD)  
 Filtration and separation  
 Adsorption  
 Crystallization

Membranes and membrane processes  
 Pumps, dosing and flow measurement  
 Cooling and fluidic handling components

Pharmaceutical technologies  
 Upstream and downstream  
 Analytics and monitoring  
 Automation and high throughput  
 Sterilisation and decontamination  
 Coating and formulation  
 Labelling and traceability

Labour and process safety  
 Explosion and fire protection  
 From model to practice  
 Standards and software for safety  
 Cyber security

Materials and material processing  
 Polymers and sealings  
 Alloys

Coatings and corrosion inhibition  
 Processing particles  
 Materials characterisation

Process analytical technology  
 Sensor-based production control  
 Spectroscopy and laser technology  
 Smart manufacturing and big data

Novel bioprocess technologies  
 Process control and optimization  
 Organisms  
 Biotechnology for a sustainable bioeconomy  
 Chemical and pharma logistics

Modular plant concepts  
 Digitalisation and data exchange

## » Exhibition Groups

**Research and Innovation**

**Literature, Information, Learning and Teaching Aids**

**Laboratory and Analytical Techniques**

**Engineering**

**Mechanical Processes**

**Thermal Processes**

**Pumps, Compressors, Valves and Fittings**

**Pharmaceutical, Packaging and Storage Techniques**

**Industrial and Labour Safety**

**Materials Technology and Testing**

**Instrumentation, Control and Automation Techniques**

**Focal Topic Biotech for Chemistry**

**Focal Topic Chemical and Pharmaceutical Logistics**

**Focal Topic Flexible Production**



» *The interdisciplinary exchange of ideas and experience between manufacturers, users, developers and scientists has always been a key concern of AICHEMA. Distributed over 18 hall levels and two outdoor areas some 3,800 exhibitors are set to present a wide variety of new developments, innovative products and system solutions. Visitors to AICHEMA have a unique advantage: at no other event in the world can a comparable concentration of process technology be experienced in such depth, transparency and topicality. The wide range of information is organized in exhibition groups, with the different subareas allocated to individual hall levels.*

## Engineering

Halls 9.1, 9.2

Development, planning and execution of complete production units for all areas of chemical engineering and biotechnology; catalysts, reactors, microtechnology; process simulation and software; plants for water and wastewater treatment, waste gas treatment, waste disposal and recycling; chemical parks, sites and services.

## Research and Innovation

Hall 9.2

Fields of activity, research results and courses offered by universities and research establishments in Germany and abroad, relating predominantly to the scientific fundamentals of chemical engineering: industrial chemistry, process engineering, measurement and control, mechanical and plant engineering, materials sciences, environmental protection, biotechnology; biotechnological products and processes for medicine and pharmacy, foodstuffs, plants and livestock breeding; environmental biotechnology processes.

## Instrumentation, Control and Automation Techniques

Halls 11.0, 11.1

Measurement and control equipment, systems for automatic control and monitoring of operations and processes; IT solutions for chemistry and engineering, process computers and micro-processors; analytical apparatus for continuous concentration measuring and production control, sensors; electrical engineering systems, equipment and components.

## Industrial and Labour Safety

Hall 9.1

Safety concepts for chemical plants; equipment, aids and measures for the protection of human life and the environment such as breathing apparatus, oxygen apparatus, protective clothing, monitoring systems, explosion protection, sound insulation, anti-electrostatic techniques, transport of hazardous substances; IT security.

## Laboratory and Analytical Techniques

Halls 4.1, 4.2, Foyer 4.1

Equipment, facilities, chemicals and services for research and industrial laboratories; laboratory planning and equipment; apparatus for physical and chemical analysis including sample preparation: weighing and dosing techniques, spectroscopy, chromatography and all related areas, surface analysis, environmental analysis, laboratory diagnostics and laboratory automation; services and contract analysis; biotechnological analysis and diagnostics, test kits, reagents, biosensors, bioinformatics, bio-chips; service providers for the biotechnology sector.

## Literature, Information, Learning and Teaching Aids

Passage 5.1 – 6.1, Foyer 4.1

International publishers of scientific and technical literature specializing in: industrial chemistry, process engineering, biotechnology, measurement and control, materials sciences, environmental protection, information systems and databases; manufacturers of learning and teaching aids for universities and vocational training at all levels.

## Mechanical Processes

Halls 5.0, 5.1, 6.0

Plant, apparatus, machines, equipment for mechanical processes, e.g. mixing, kneading, stirring, screening, filtering (including filter media), centrifuging, crushing, grinding, agglomerating, homogenizing, conveying, weighing; drive units and cleaning technology.

## Thermal Processes

Halls 4.0, 5.1, 6.1

Plant, apparatus, machines, equipment for thermal processes, such as distilling, rectifying, extracting, absorbing, crystallizing, drying, heating and cooling; electrochemistry, membrane processes, bioreactors, biorefineries, synthetic fibre processes, power generation, heat pumps, heat transfer and insulation techniques; clean-room technology, air-conditioning systems, industrial gases; innovative energy sources and storage, novel battery concepts, progress in fuel cell technology.





## Pharmaceutical, Packaging and Storage Techniques

Halls 1.1, 3.0, 3.1, Forum Fo.0

Apparatus and machinery for dosing, moulding, filling, sealing, packing, labelling and inspection as well as packaging materials; machinery for the production, manufacture and packaging of drugs; transportation and storage techniques. Services from the fields of logistics, production and financing; supply chain management.

## Pumps, Compressors, Valves and Fittings

Halls 8.0, 9.0, 9.1

Pumps and compressors for all media, for different operating conditions and loads; valves, fittings, pipelines, seals and packings; high-pressure cleaning equipment.

## Materials Technology and Testing

Hall 11.0

Metallic and non-metallic materials and composites for chemical engineering, technical apparatus and equipment made of these materials, surface protection (e.g. enamelling, plating, plasma spraying, coating, refractory linings), welding and joining techniques, microscopy; equipment for physical and chemical testing of materials, materials analysis, metallography, physical surface measurements, diffraction analysis, non-destructive materials testing, component testing, quality assurance techniques during operations; materials for photovoltaic applications.

## » Theme Stands

### FLOW CHEMISTRY PAVILLION

Hall 9.2

The *Flow Chemistry Pavilion* presents innovations in the field of continuous production and offers visitors an up-to-the-minute overview of the market. Rapid process optimization, shorter reaction times, higher product purity, enhanced safety and easy scale-up are the significant advantages over conventional processes. In addition there are synthesis routes that are not accessible using routine batch processes. That's why all visitors seeking first-hand information about the AICHEMA focal topic "Flexible Production" should head to the *Flow Chemistry Pavilion*.

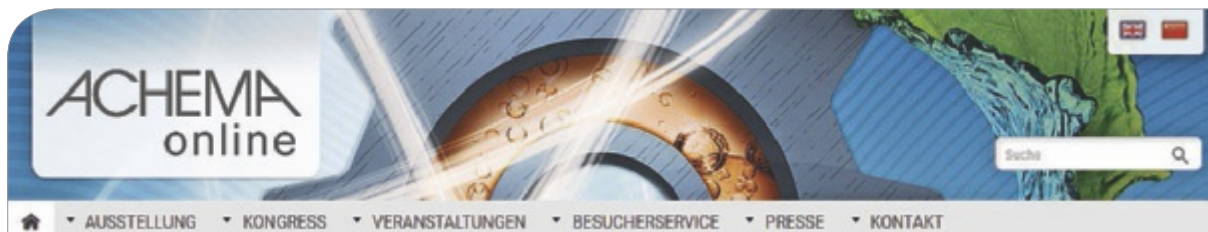
### MODULAR PRODUCTION

Hall 9.2

Modular design of production facilities is one possible response to the increased demands made of the process industries for more flexibility, speed and cost effectiveness. Modularization, however – from engineering through to automated operation – is only feasible if all involved agree on binding standards, one example being interfaces. This group stand, a joint initiative of ZVEI, NAMUR, DECHEMA and VDMA, presents a concise summary of ongoing cross-sector activities in process engineering, measurement and control technology, and plant construction, aimed at establishing modular systems in the process industries.

## » Group Stands

Group Stands	Hall
• AICHEMA Start-Up Award	9.2
• Baden-Württemberg International	9.0
• Bayerische Hochschulen	9.2
• Beijing Worldboson International	div. Standorte
• Business France – French Pavilion	8.0, 9.2, 11.1
• CMEC International, Beijing	div. Standorte
• EMCLAB, Duisburg	4.1
• energie-cluster.ch, Bern	6.1
• EXCELLENCE 4 LAB	4.1
• Excellence United – The Community of Experts	3.0
• FLUIDEX, Bilbao	8.0, 9.0, 9.1
• Forschung für die Zukunft	9.2
• GAMBICA Association Ltd., London	4.2
• Hessische Hochschulen	9.2
• saar.is – saarland. innovation&standort e.V.	5.1



## HOME

All the up-to-date information on ACHEMA 2018 can be found on [www.achema.de](http://www.achema.de). Here you can quickly and intuitively access the most important facts about the exhibition, congress and visitor services. ACHEMA online has been optimized for display on mobile devices so, no matter how far away you are, you can visit our website any time with your smartphone or tablet.

### THE KEY FEATURES ABOUT ACHEMA 2018 AT A GLANCE:

- All exhibitors from A–Z
- Interactive hall plans for easy orientation on the exhibition grounds
- Easy-to-use search functions for all product categories, exhibition groups, focal topics and halls
- Short company profiles of exhibitors with business fields and products
- Contact details for getting in touch directly
- myACHEMA feature to list your personal favourites
- Daily updated congress programme with all lectures and speakers
- Draw up your personal schedule for ACHEMA
- Share interesting exhibition stands and lectures via social media
- Visitor services
- Free participation in ACHEMA Partnering via your smartphone

### ACHEMA ONLINE MAKES LIGHT WORK OF A SUCCESSFUL VISIT TO ACHEMA.

With **myACHEMA** you only need to enter your personal data for inquiries or orders once. Registration also enables you to take part in ACHEMA Partnering (→ Events). It's also a good idea to use the option to subscribe to our newsletter so that you are always on the cutting edge!

ACHEMA online provides information on companies and research institutions even after the event. It documents all sectors represented at ACHEMA in detail and is an ideal resource for all kinds of searches.

### The ACHEMA App – stay on the ball while on the move!

The ACHEMA app will be available from official app stores from mid-May 2018 free of charge: for iPhones from iOS 10.3, Android phones from version 5. Information about exhibitors and the congress programme is available offline so, once you have installed the app, you can use it without an internet connection. With the optional daily update you will always be one move ahead and your interactive personal ACHEMA planner will always be at your fingertips. Ideally, bookmark [www.achema.de/achema-app](http://www.achema.de/achema-app) straight away!

**ACHEMA Partnering** is a tried-and-tested means of forging international business contacts. Be part of the ACHEMA Community! Your personal user account myACHEMA that you use for exhibitor searches also gives you access to our user-friendly networking tool that will

supplement our online services from May 2018 onwards. You can even use it during the run-up to ACHEMA to contact potential cooperation or business partners. ACHEMA Partnering does not cost you a cent!

### Visitor Services

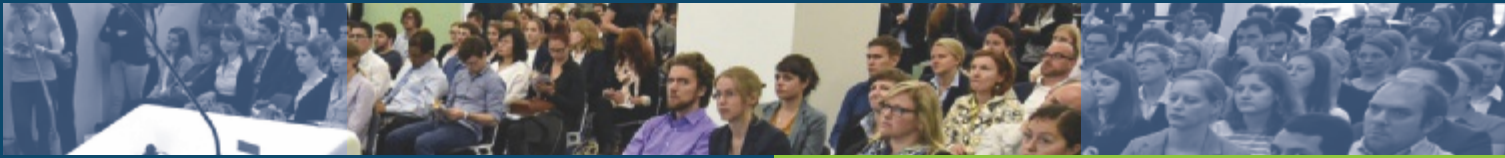
Information from A for arrival, including air, rail and local transport connections, to Z for zip code can be found under the menu item "Visitor Services". Here, it is also simple to order an admission ticket and print it out at home. Furthermore, this is where international visitors will find the contact details of chambers of industry and commerce, travel agencies and other organisations.

**COMPASS** – Visitor Information and Directions  
Besides ACHEMA online and the ACHEMA App we offer COMPASS, the on-site visitor information and orientation system located at all main entrances and in most halls.

### Catalogue

The Exhibition Catalogue will be published in time for the beginning of the event and will be available free of charge in the entrance areas of the exhibition grounds while stocks last. This single volume booklet contains the following information:

- Hall and site plans
- Alphabetical index of exhibitors
- Index of brand names



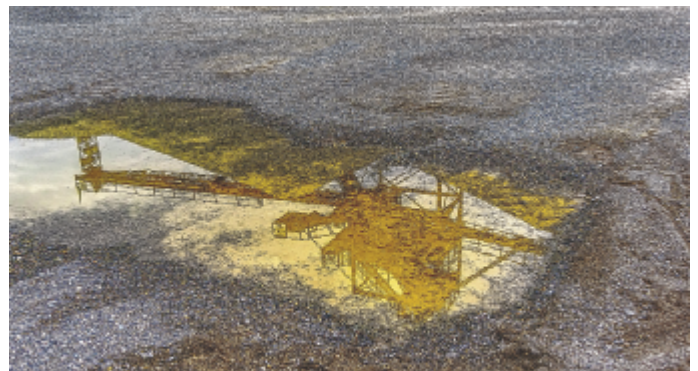
## » Theme Days

*The ACHEMA Congress programme classifies trends in the process industries by theme, thus providing a platform for intensive discussions. Top trending themes will be in the spotlight on the first three event days:*

### RESOURCES

**Monday, 11 June 2018**

Which resources will provide the basis for chemical production in the future? Where will the raw materials for batteries and modern technologies come from? If biomass carries the day, will CO<sub>2</sub> open up new options? Or will product portfolios change out of recognition as initiatives like “plastic-free Europe” give us to understand? How can water cycles be closed? ACHEMA addresses the origin, re-use, recycling and recovery of resources in numerous lecture sessions and a panel discussion.



### DIGITIZATION

**Tuesday, 12 June 2018**

The digitization of the process industries is being accelerated not only by changing customer requirements but also by developments in information technology. Where do the process industries stand right now? What technological developments are emerging? What do automation, modularization and flexibilization stand for in terms of plants and business models? What implications can be drawn for infrastructure and safety? Get involved by taking advantage of the lectures, special sessions and a panel discussion – and see what vision of “Process Industries 4.0” you come up with!



### ENERGY & CLIMATE

**Wednesday, 13 June 2018**

The process industries are energy consumers and solution providers at one and the same time. Their contribution to climate protection and a stable energy system ranges from energy storage to the utilization of a variety of energy sources for chemical processes through to CO<sub>2</sub> utilization as a raw material. The Congress programme and plenary lectures span a wide spectrum of issues, from energy efficiency of processes through to sector integration and systems approaches.





## » Plenary Lectures

**Wednesday, 13 June 2018 13:30–14:30 h**

Hall 4.0, Room Europa

### SUSTAINABLE CHEMICAL VALUE CHAINS: NEW PERSPECTIVES FOR SECTOR COUPLING

Walter Leitner, Max Planck Institute for Chemical Energy Conversion, Mülheim/D and RWTH Aachen University/D  
Markus Steilemann, Covestro AG, Leverkusen/D

The industrial transformation of carbon-based raw materials into valuable products forms the basis of today's global economy. With products ranging from energy carriers, to plastics and advanced materials, through to biologically active compounds, chemistry is essential to cope with the global challenges of our time. However, the adverse effects of the current fossil-based economy are becoming more and more apparent, especially with respect to greenhouse gas emissions. There is an increasing need to broaden the raw material base by developing and using non-fossil resources together with the deployment of carbon-free energy technologies.

**Thursday, 14 June 2018 13:30–14:30 h**

Hall 4.0, Room Europa

### VISIBLE-LIGHT PHOTOREDOX CATALYSIS IN FLOW – TOWARDS A SUSTAINABLE PRODUCTION OF PHARMACEUTICALS

Timothy Noël,  
Eindhoven University of Technology/NL  
DECHEMA prize winner

Visible-light photoredox catalysis has received much attention in recent years as a mild and sustainable activation mode for organic molecules. Yet, the use of solar energy to promote visible-light-mediated reactions is not widespread.

Research on the development of novel synthetic methods using photoredox catalysis and how these methods can benefit from continuous-flow

processing will be discussed. Furthermore, a novel device integrating the luminescent solar concentrator concept with photomicroreactors, allowing the direct use of solar light in photochemistry without the need for any intermediate energy conversion, will be presented.



## » Panel Discussions

**Monday, 11 June 2018 13:30–15:00 h**

Hall 4.0, Room Europa

### PLASTIC-FREE EUROPE? ZERO-WASTE STRATEGY TACKLES PLASTIC IN THE ENVIRONMENT

Plastics are used for a wide variety of industrial and consumer applications due to their diverse properties. A 100% plastic-free Europe, therefore, seems difficult, if not unrealizable. However, efforts are needed to avoid the use of plastics, to search for sustainable alternatives, to promote recycling and also to reduce the impact of plastic waste on ecosystems.

Against the background of the compelling advantages of plastics, but also the need for action in this area, visions for the future handling of plastics and their use will be discussed – especially with regard to sustainability and industrial approaches.

#### Moderator:

Kathrin Rübberdt, DECHEMA e.V., Frankfurt/D

#### Participants:

H.-M. Schally, European Commission, Brussels/B  
I. Sartorius, PlasticsEurope Deutschland e.V., Frankfurt am Main/D  
J. Zimmermann, NaKu e.U., Vienna/A  
R. Grießhammer, Öko-Institut e.V., Freiburg/D  
M. Dambeck, RIGK GmbH, Wiesbaden/D

**Tuesday, 12 June 2018 13:30–15:00 h**

Hall 4.0, Room Europa

### DIGITIZATION MEETS THE PROCESS INDUSTRIES: REWRITING BUSINESS MODELS

There is an increasing lack of innovation in the chemical and pharmaceutical industries in terms of new elements, molecules, materials and blockbusters. Furthermore, companies fear commoditization due to high price pressure from new players as well as new and ever-changing customer expectations.

The traditional chemical and pharmaceutical industries need to refocus and rebuild their value chain processes to secure their leading market position in the long term. Digital technologies could lead to new business models, and start-ups could change the way how business is done in the world of pharma and chemistry.

The chemical industry has successfully demonstrated the decoupling of energy input and production output – can the major players now lead us into an outcome-based economy where production volume and revenue are decoupled as well?

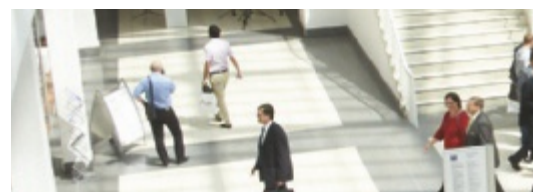
#### Moderator:

B. Mathes, DECHEMA e.V., Frankfurt/D

#### Participants:

Carsten Bartsch, Hochschule der Bayerischen Wirtschaft, Munich/D  
Philipp Karmires, Linde AG, Pullach/D  
James Kugler, Merck KGaA, Darmstadt/D  
Lak Ananth, next47, Palo Alto/USA  
(to be confirmed)

The plenary lectures will be held in English.  
We reserve the right to make changes to the programme.





## » ACHEMA Congress

The **congress programme** comprises the complete spectrum of chemical and process engineering as well as biotechnology themes. The lectures provide insights into **current research activities and new scientific results**.

The **ACHEMA PRAXISforums** focus on industrial applications, trends, new products and services in chemical engineering, biotechnology and the process industry. **Market- and practice-oriented topics** are presented in a concise format by experts associated with our exhibitor groups. The **ACHEMA PRAXISforums** are held in the immediate vicinity of the respective exhibition group.

<b>Congress language</b>	English
<b>Topic overview</b>	see pages 11 to 14
<b>Lecture overview</b>	see pages 20 to 21
<b>Programme details</b>	daily on www.chema.de/congress and in the App

### Biotechnology

Modern industrial biotechnology is expanding the options for the production of chemicals, polymers, and novel products with superior properties. Process development is the key to this transition.

- Biotech for chemistry
  - Developing processes
  - Methane, metals and metabolites
  - Organisms
- Biotechnology for a sustainable bioeconomy

### PRAXISforum: Bioprocessing – speed, flexibility, disposables

Newly developed reaction systems (e. g. single-use technologies), continuous processes, modularization, process and strain development, advanced process analytics and data-mining tools speed up the optimization of bioprocesses. Join this PRAXISforum and be informed about new technologies and products in the world of biotechnology.

- Novel bioprocess technologies
- Process control and optimization

### Chemical and Pharma Logistics

#### PRAXISforum:

#### Chemical and pharmaceutical logistics

From service provider to system partner with higher-level solutions – the digitization of the logistics chain opens new doors in supply chain management and distribution: Nowadays logistics have to meet certain requirements of the chemical and pharmaceutical industries. The flow of goods and information must be further optimized and adapted to the needs of the customers. The monitoring and quality assurance of the goods during transport and production are becoming increasingly important. In particular, advances in automation and digitization play a decisive role in the development of innovative logistics solutions.

### Energy

The transformation of our current, fossil-based energy system into a sustainable and secure energy system is paramount for the stable and continuous development of industry and society. The future energy supply and the adaptation of our energy system to future challenges incorporate aspects of energy, environmental and climate policies.

- Future energy supply
  - Efficient use of heat
  - Electricity as a resource
  - Electrochemical energy storage
  - Integrated energy systems
  - PtX/CO<sub>2</sub> utilization
  - Utilization of biomass

### Engineering

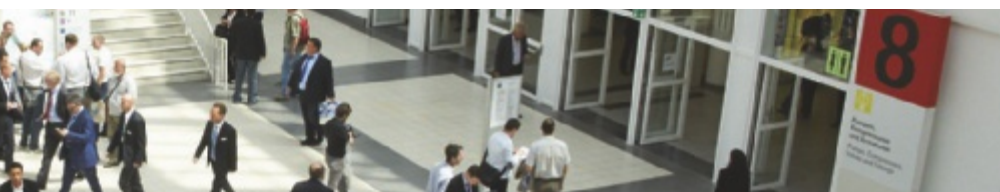
Chemical engineering today encompasses the realization of chemical processes, from intelligent process design based on advanced process synthesis and engineering tools to the rational selection of process equipment. The use of structured equipment, advanced process control and the integration of reaction and separation steps provide a holistic view of process performance.

Reaction technology is the basic technology which defines the process industries. New technologies influence equipment and plant design as well as material and product sustainability requirements.

- Chemical engineering
  - Additive manufacturing
  - Continuous manufacturing and flow chemistry
  - Digital plants
  - Heat and steam
  - Plant operation, control and optimization
  - Process design and modelling/simulation
  - Resource-efficient processes
- Reaction technology
  - Advanced reactor concepts, catalysis and kinetics
- Phytoextraction and technology

#### PRAXISforum: Advanced reactor design

Modern processes, such as continuous manufacturing or flexible production, require sophisticated reactor concepts that combine intensified reaction conditions with improved safety precautions and precise reaction monitoring/control.



## Flexible Production

Innovation and digitization are steadily speeding up, and product life cycles are getting shorter and shorter with increasing product diversity. Novel plant concepts are needed for rapid and intelligent adaptation to new conditions, like changed quantities, variable feedstocks or flexible production.

- Automation and digitization
- Modular plant concepts
- Digitization and data exchange in the process industry

### PRAXISforum: Future production

Two major production concepts of the chemical industry entail continuous-flow and modularized production, which follow a growing trend towards customized specialty and fine chemicals, and increasing product varieties. These concepts and the trend towards further digitization by making smart use of process data will be shown by best practice examples and expert talks.

## Industrial and Labour Safety

Latest concepts and methods, regulatory developments and their implications for plant and process safety as well as occupational safety. These sessions are dedicated to safety practitioners of all related stakeholders, including industry, services, academics, and public authorities.

- Bolting technologies
- Cyber security
- Labour and process safety
  - Explosion and fire protection
  - From model to practice
  - Standards and software for safety
- Process safety vision 2020

### PRAXISforum: Safety first!

Learning from incidents and performance optimization: that's the core of this PRAXISforum. Best practice examples and lessons learned as well as the latest innovative products and services for plant and process safety and also occupational safety will be presented and discussed.

## Laboratory and Analytical Techniques

Modern lab equipment today enables researchers to perform literally millions of reactions and analyses in a short time frame. Along with digital transformation the working environment in labs will transform dramatically. To achieve optimal performance labs often need to be structured, equipped, operated, and maintained in different ways.

- Laboratory technology

### PRAXISforum: Lab of the future

This PRAXISforum covers the latest innovations in products and services relating to laboratory technologies, from basic lab equipment to automated modular systems and the software and modelling tools needed to convert big data into smart data.

## Materials Technology and Testing

Materials and material processing are key success factors in the process industries. The interaction between reaction media, reactants and material surfaces and the correct dosage of ingredients along with product functionality strongly depend on the correct choice of materials and how they are employed.

- Materials and material processing
  - Alloys
  - Coatings and corrosion inhibition
  - Materials characterization
  - Particles and fibres
  - Polymers and sealings
  - Processing particles
- International Powder and Nanotechnology Forum 2018



## Mechanical Processes

Mixing and separation processes are essential to the chemical, biotechnological and materials processing industries. In addition to the important roles that mixing and separation technologies play in these industries, new developments in these areas present opportunities for reducing waste and using energy and raw materials more efficiently.

- Mixing and separation technology
  - Adsorption
  - Chromatography
  - Computational fluid dynamics (CFD) and mixing
  - Crystallization
  - Filtration and separation
- Membranes and membrane processes

### PRAXISforum:

#### Innovative mixing & separation solutions

Experts and major solution providers show how you can achieve a significant decrease in operating and capital expenditure due to new products and developments in the field of mixing, filtration and separation technologies.

- Mixing technologies
- Filtration technologies
- Separation and mass transfer technologies

## Pharmaceutical Technologies

The pharmaceutical industry has very specific requirements relating to process and product quality, from equipment for manufacturing pharmaceuticals, through to packaging and labelling.

- Pharmaceutical technologies
  - Analytics and monitoring
  - Automation and high throughput
  - Coating and formulation
  - Labelling and traceability
  - Sterilization and decontamination
  - Upstream and downstream

### PRAXISforum: Pharma meets production

This PRAXISforum covers practical and close-to-market aspects of the production processes of (bio)pharmaceuticals.

- Dosage forms, fill & finish
- Flexible and continuous manufacturing
- Integrity and risk management
- Integrity and sterility

## Process Analytics

Precise, real-time process analytics is indispensable to future chemical production which has to comply with increasingly higher standards in terms of individualization, quality control, and process efficiency. The holistic approach of PAT combines process design, analytics, and control. As a scientific, risk-based framework, PAT is intended to support innovation and efficiency in chemical and pharmaceutical development, manufacturing and quality assurance, and is seen as a very important tool for Quality by Design.

- Process analytical technology
  - Biochemical processes
  - Novel applications
  - Spectroscopy and laser technology
  - Smart manufacturing and big data

### PRAXISforum:

#### Sensor-based production control

For almost fully automated production, including scheduling, dispatching and monitoring of all production steps, intelligent and smart sensors are key components. This PRAXISforum will cover the latest technologies and solutions in the field of sensors (ready-to-use) and their implementation in the process industries.

- New technologies
- Smart applications
- Smart sensing

## Pumps, Compressors, Valves and Fittings

The movement and storage of liquids, gases, liquid-solid suspensions or other multiphase mixtures are key operations in all fields of the process industries. New fluid handling and transfer equipment, pumps and peripheral equipment span large fields of key relevance to fluid handling which are subject to continuous far-reaching innovations.

### PRAXISforum:

#### State-of-the-art in fluid handling

This PRAXISforum shows the latest developments in modern fluid handling. Pumps, dosing and flow measurement innovations will be shown as well as cooling and fluid handling components.

## Raw Materials

The chemical industry aims to broaden its raw material base by switching to more sustainable feedstocks to meet future climate protection targets. While the market share of platform chemicals from biomass is continuously growing, carbon dioxide fixation from flue gases or the atmosphere using renewable energy sources may also become a future source of carbon.

- CO2Plus – Broadening the raw material base
- Raw materials and alternative feedstocks
  - Holistic approaches to the processing of raw materials
  - Biorefining processes
  - Biobased chemicals
  - Alternative feedstocks
- Sustainability – renew, resource and rethink

## Water Technologies

For industry, water represents an indispensable component of its ongoing development. Efficient industrial water management provides industry with a wide range of economic and strategic advantages.

- Industrial water management
  - Analyzing and optimizing water treatment processes
  - Catalytic processes in water treatment
  - Perspectives in industrial water management
  - Recovery of valuable substances from wastewater streams
  - Water reuse and desalination





# ACHEMA



## AT A GLANCE

### ADVANCED REACTOR DESIGN

Hall 9.1, Room Logos/Genius  
Tuesday, 12 June 2018 15:00–17:40 h

### BIOPROCESSING: SPEED, FLEXIBILITY, DISPOSABLES

Hall 9.1, Room Esprit  
Wednesday, 13 June 2018 10:30–13:10 h and  
15:00–17:40 h

### CHEMICAL AND PHARMACEUTICAL LOGISTICS

Hall 1.1, Logistics Hotspot  
Tuesday, 12 June 2018 10:30–13:10 h

### FUTURE PRODUCTION

Hall 9.2, Room Dialog  
Thursday, 14 June 2018 10:30–13:10 h and  
15:00–17:40 h

### INNOVATIVE MIXING & SEPARATION SOLUTIONS

Hall 4.C, Room Consens  
Tuesday, 12 June 2018 10:30–13:10 h and  
15:00–17:40 h  
Thursday, 14 June 2018 10:30–13:10 h and  
15:00–17:40 h

### LAB OF THE FUTURE

Hall 4.C, Room Entente  
Wednesday, 13 June 2018 10:30–13:10 h and  
15:00–17:40 h

### PHARMA MEETS PRODUCTION

Hall 1.1, Logistics Hotspot  
Monday 11 June 2018 15:00–17:40 h  
Wednesday 13 June 2018 15:00–17:40 h  
Thursday 14 June 2018 10:30–13:10 h  
Friday 15 June 2018 10:30–13:10 h

### SAFETY FIRST!

Hall 9.1, Room Esprit  
Tuesday, 12 June 2018 10:30–13:10 h and  
15:00–17:40 h

### SENSOR-BASED PRODUCTION CONTROL

Hall 11.0, Room Korall  
Tuesday 12 June 2018 15:00–17:40 h  
Portalhaus (Hall 11), Room Transparenz 1  
Thursday, 14 June 2018 10:30–13:10 h and  
15:00–17:40 h

### STATE-OF-THE-ART IN FLUID HANDLING

Hall 9.1, Room Logos/Genius  
Thursday, 14 June 2018 10:30–13:10 h and  
15:00–17:40 h





Monday, 11 June 2018

11:00 h

CongressCenter Messe Frankfurt (CMF)

**WELCOME ADDRESS AND OPENING**

by the Chairman of DECHEMA e.V.  
Prof. Dr. Rainer Diercks

**AWARDS**

Winners of the DECHEMAX Schools Competition

**PRESENTATION OF THE ACHEMA START-UP AWARD**

(see also page 16)

**LECTURE**

“Serendipity Strokes Discovery:  
Disrupting Established Industries”  
Sir James Fraser Stoddart  
Nobel Laureate 2016



Sir James Fraser Stoddart

**FINALE**

Participation subject to registration  
at [www.achema.de](http://www.achema.de) → Visitor Service → General Programme



## ACHEMA START-UP AWARD



## ACHEMA GRÜNDER PREIS

### » ACHEMA Start-Up Award

Monday, 11 June 2018

11:00 h

CongressCenter Messe Frankfurt (CMF)

will be presented during the Opening Session  
(see p. 15).

Ten finalists have made it to ACHEMA 2018!  
Who was able to win over the expert jury with  
innovative ideas and a convincing business plan  
and thus secure a cash prize of 10,000 euros  
as one of three overall winners?

This is the second time that the Business Angels  
FrankfurtRheinMain and the High-Tech Gründer-  
fonds have assisted DECHEMA in paving the way  
for innovations in chemistry, process engineering  
and biotechnology by presenting the ACHEMA  
Start-Up Award in these three fields to (future)  
entrepreneurs.

The chemical industry is the innovation driver  
for countless other industrial sectors, and yet  
the number of company start-ups in these  
areas is surprisingly low. Good ideas and young  
entrepreneurs need more support in opening  
up new business areas; moreover access to  
experienced mentors and the opportunity to  
network are no less important than financial  
aspects.

All finalists of the ACHEMA Start-Up Award will  
be present at their own group stand in Hall 9.2  
during the whole ACHEMA week.

#### » PREMIUM PARTNERS



#### PARTNERS



#### PATRONS



High-Tech Gründerfonds



BUSINESS  
ANGELS  
FRANKFURT  
RHEIN-MAIN

#### MEDIA PARTNERS



#### SUPPORTERS



GESELLSCHAFT DEUTSCHER CHEMIKER



GO-Bio





## » ACHEMA Media Award

Thursday, 14 June 2018

17:00 h

DECHEMA Stand, Hall 9.2

How much technology is concealed in a diaper? Will our trash be worth its weight in gold in future? And how is it that we can surf on air? Past prize winners of the AACHEMA Media Award have come up with an answer to these and other questions in their outstanding media contributions. The Award is conferred for journalistic achievements that have made science and technology comprehensible and relevant to everyday life for non-scientists. Join us on DECHEMA Day for the eighth AACHEMA Media Award ceremony! The AACHEMA Media Award has been presented every three years since 1997; it comes with a cash prize of 10,000 euros.





## » ACHEMA worldwide Business Forum

Wednesday, 13 June 2018 11:00–13:00 h

Hall 1.1, Logistics Hotspot

### REVOLUTIONIZING DISTRIBUTION AND SUPPLY CHANNELS OF CHINA'S PROCESS INDUSTRY

Get an idea of the upheaval initiated by new social media platforms, new communication tools, and new players in China – all of which have the potential to dramatically change the way we will all be doing business shortly. The ACHEMA worldwide Business Forum on China delivers insights for a better understanding of how distribution channels in the process industry work in a completely remodeled business environment. In addition, the Forum offers networking opportunities with key influencers of China's

process industry, thus building a first stepping stone towards your own successful participation at AchemAsia 2019.

with contributions from

- Alibaba
- BASF
- Evonik
- AICM Association of International Chemical Manufacturers
- SINOCEM
- Tencent

followed by a snack at lunchtime, an opportunity for informal talks

The event will be held in English.



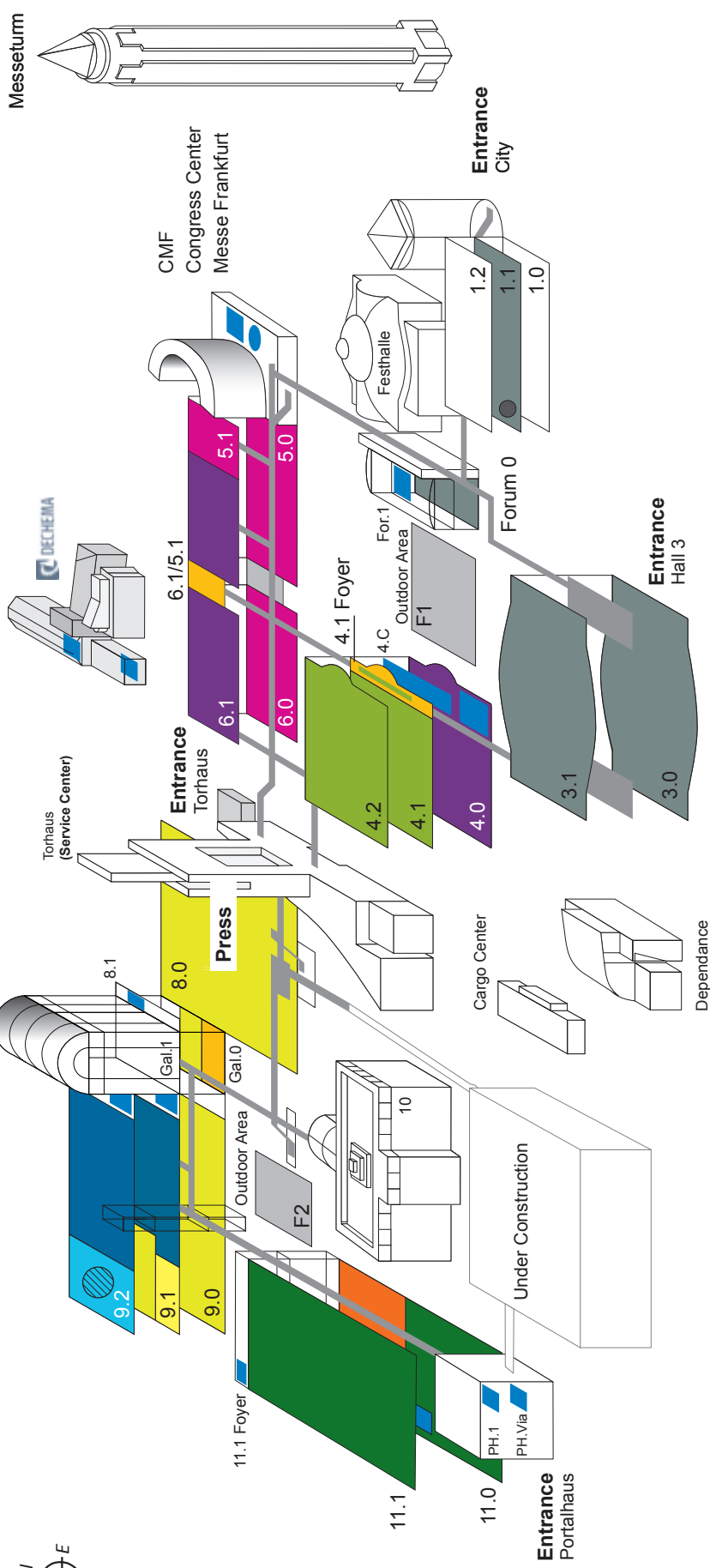


# Exhibition Halls

## Plan 1



# ACHEMA 2018



	Engineering		Instrumentation, Control and Automation Techniques		Lecture Rooms		Hall 8.1
	Research and Innovation		Pharmaceutical, Packaging and Storage Techniques		Congress Office		Hall 9.1
	Laboratory and Analytical Techniques		Pumps, Compressors, Valves and Fittings		Discussion Corner		Esprit
	Literature, Information, Learning and Teaching Aids		Industrial and Labour Safety		Logistics Hotspot		Genius
	Mechanical Processes		Thermal Processes		DEHEMA House		Logos

	Forum 1		Franz Patat Auditorium		Hall 11.0		Dialog
	Panorama 3		Max Buchner Auditorium		Korall		Hall 9.2
	Hall 4.0		Foyer North		Portalhaus Via		Freqrenz
	Europa		Alliance		Concorde		Portalhaus 1
	Hall 4.C		Consensus		Entente		Transparenz

**Lecture Rooms:**

	Harmonie 1 - 5
	Spektrum
	Conclusio 1 + 2
	Fantasia 1 + 2
	Illusion 1 - 3

# OVERALL TIME PLANNER

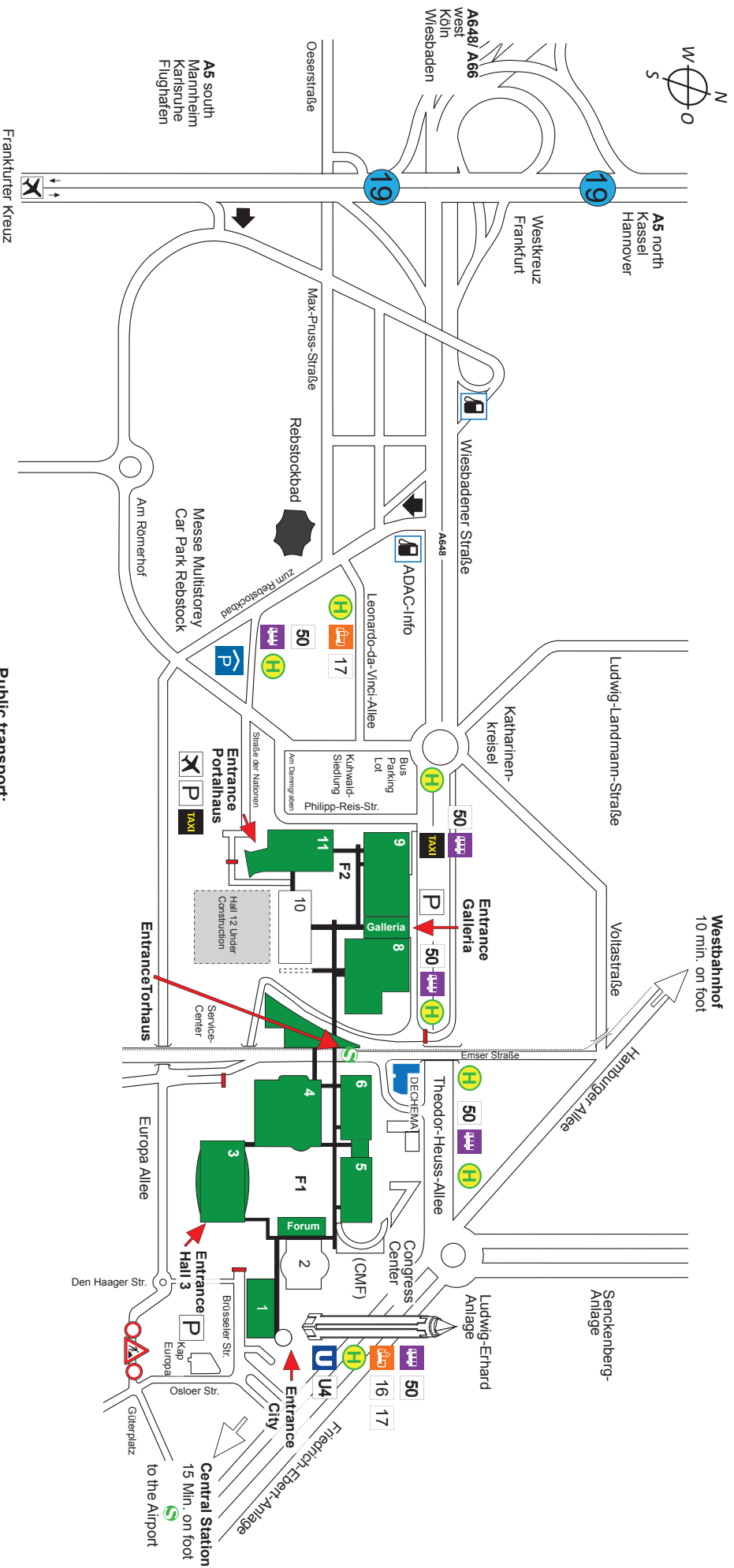
Room	Harmonie 1	Harmonie 2	Harmonie 3	Harmonie 4	Harmonie 5	Spektrum	Conclusio 1	Conclusio 2	Fantasie 1	Fantasie 2	Illusion 1	Illusion 2	
Hall	CMF	CMF	CMF	CMF	CMF	CMF	CMF	CMF	CMF	CMF	CMF	CMF	
Monday, 11.6.	11:00 <b>Opening Session</b>												
	13:30 <b>Hall 4.0, Europa: Panel discussion Plastic free Europe?</b>												
	15:00					Sustainability – renew, resource and rethink	Panel Discussion on Flow Chemistry: Challenges and opportunities of Micro Reaction Technologies	Materials and material processing Processing particles	Chemical engineering Plant control and optimization	CO <sub>2</sub> Plus Broadening the raw material base	Scalable milli and micro production technology for energy efficient continuous manufacturing in the process industry MI2Pro	Europ Process Centre Live exper	
Tuesday, 12.6.	10:30	Innovative process analytics	Industrial water management Perspectives in industrial water management	Biotech for chemistry Organisms	Future energy supply Electrochemical energy storage	Digitalisation	International powder and nanotechnology forum Simulation and modeling	Resource efficiency in the processing industry	Materials and material processing Particles, fibres...	Chemical engineering Digital plants	CO <sub>2</sub> Plus Broadening the raw material base	Alloys and technologies for Steam Cracking Furnace Coils EPSC a lectu	
	13:30 <b>Hall 4.0, Europa: Panel discussion Digitalization meets Process Industry: Rewriting business models</b>												
	15:00	Model based control in real life	WavE-Projects: Water reuse in industry	Biotech for chemistry Developing processes I	Future energy supply PTX/CO <sub>2</sub> utilization	Pharmaceutical technology Upstream and downstream	International powder and nanotechnology forum Nanotechnology/ Biotechnology	Mixing and separation technology Chromatography	Materials and material processing Materials characterisation	Chemical engineering Process design and modelling/ simulation	Managing corrosion and fouling with Teflon™ solutions (Beginn: 13:30)	Handheld vibrational spectrometers	The Fut Process Process case s
Wednesday, 13.6.	10:30	Process analytical technology Bio-chemical processes I	Water treatment, water reuse and desalination	Biotech for chemistry Developing processes II	Future energy supply Integrated energy systems	Pharmaceutical technology Analytics and monitoring	International powder and nanotechnology forum Pharmaceutical science and technology	Mixing and separation technology Computational Fluid Dynamics (CFD) and mixing	Biotechnology for a sustainable bioeconomy I Plant operation	Chemical engineering	Membranes and membrane processes I TERESA – Droplet entrainment and droplet reduction in mass transfer devices	Phytoext and tech	
	13:30 <b>Hall 4.0, Europa: Plenary lecture Sustainable chemical value chains: New perspectives for sector coupling Leitner/Steilemann</b>												
	15:00	Process analytical technology Bio-chemical processes II	Water treatment, water reuse and desalination	Biotech for chemistry Methane, metals and metabolites	Future energy supply Utilization of biomass	Pharmaceutical technology Automation and high throughput	International powder and nanotechnology forum Crystallization	Mixing and separation technology Filtration and separation	Biotechnology for a sustainable bioeconomy II Scale-up and economy of scale	Chemical engineering	Membranes and membrane processes II TERESA – Droplet entrainment and droplet reduction in mass transfer devices	Process vision 2	
Thursday, 14.6.	10:30	Process analytical technology Spectroscopy and laser technology	Industrial water management Catalytic processes in water treatment	Laboratory technology I	Future energy supply Efficient use of heat	Pharmaceutical technology Sterilisation and decontamination	Materials and material processing Polymers and sealings	Mixing and separation technology Adsorption I	Biotechnology for a sustainable bioeconomy III Heat and steam	Chemical engineering	Reaction technology Microstructured reactors	Cyber security Why and how	Labour process Explosion protec
	13:30 <b>Hall 4.0, Europa: Plenary lecture DECHEMA prize winner lecture: Visible-light photoredox catalysis in flow – Towards a sustainable production of pharmaceuticals Noël</b>												
	15:00	Process analytical technology Smart manufacturing and big data	Industrial water management Valuables recovery from wastewater streams	Laboratory technology II	Electricity as a resource Results from the Fraunhofer Light-house Project	Pharmaceutical technology Coating and formulation	Materials and material processing Alloys	Mixing and separation technology Adsorption II	Biotechnology for a sustainable bioeconomy IV New processes	Chemical engineering	Reaction technology Advanced reactor concepts	Cyber security Why and how	Labour process From mo pract
Friday, 15.6.	10:30	Process analytical technology Novel applications	Industrial water management Analysing and optimising water treatment processes	Particle characterisation primer The whys, the hows, the can'ts and the future	Chemical engineering Additive manufacturing	Pharmaceutical technology Labelling and traceability	Materials and material processing Coatings and corrosion inhibition	Mixing and separation technology Crystallisation and separation	InnoEMat – Innovative materials for electrochemistry Efficient and low emitting processes	Chemical engineering	Reaction technology Catalysis and kinetics	Labour process Standard softwa safe	

- Flexible production
- Biotechnology
- Engineering
- Water technologies
- Mechanical processes
- Pharmaceutical technologies
- Laboratory and analytical techniques
- Materials technology and testing
- Energy
- Process analytics
- Industrial and labour safety
- Raw materials
- Chemical and pharma logistics
- Pumps, compressors, valves and fittings





on 2	Illusion 3	Logistics Hotspot	Consens	Entente	Logos/ Genius	Esprit	Discussion Corner	Dialog	Korall	Trans- parenz 1	General Events
IF	CMF	1.1	4.C	4.C	9.1	9.1	9.2	9.2	11.0	PH	11:00 <b>ACHEMA Start-up Award</b> CMF, Harmonie 11:00 <b>Automation in Dialogue</b> Hall 11.0, Stand F59 14:30 <b>Teacher Programme</b> Hall 9.2, Dialog 18:30 <b>Meet your Friends</b> Agora/Forum
<b>Hall 4.0, Europa: Panel discussion Plastic free Europe?</b>											
ean Safety EPSC)	Flexible production	PRAXISforum: Pharma meets production  Flexible and continuous manufacturing									
osions	Smart and flexible production										
ean Safety EPSC)	Flexible production	PRAXISforum: Chemical and pharma logistics	PRAXISforum: Innovative mixing and separation solutions  Mixing technologies		Data exchange in the process industry	PRAXISforum: Safety first!  Learning from incidents and performance optimisation					8:30 <b>CTO Breakfast</b> (special invitation) 9:30 <b>International Symposium: Safety and Health Protection in the Supply Chain of Chemicals</b> DECHEMA House, Franz Patat Auditorium 10:30 <b>Start-up Forum</b> Hall 9.2, Discussion Corner 11:00 <b>Automation in Dialogue</b> Hall 11.0, Stand F59 13:00 <b>Event for Pupils</b> Hall 8.1, Symmetrie 2+3 15:00 <b>Chemie-Pharma-Logistik</b> Hall 1.1, Logistics Hotspot 16:00 <b>India Day</b> Portalhaus Via, Frequenz 17:15 <b>Japanese Reception</b> Hall 4.C, Concorde 19:00 <b>Frankfurt Evening in the Römer</b> (special invitation)
award re	Automation and digitalisation										
<b>Hall 4.0, Europa: Panel discussion Digitalization meets Process Industry: Rewriting business models</b>											
ure of Safety	Flexible production		PRAXISforum: Innovative mixing and separation solutions  Filtration technologies		PRAXISforum: Advanced reactor design	PRAXISforum: Safety first!  Learning from incidents and performance optimisation				PRAXISforum: Sensor-based production control  New technologies	
safety study	Modular plant concepts I										
raction nology	Flexible production		Nickel Alloys for today's process industry  Experiences, applications and perspectives			PRAXISforum: Bioprocessing: Speed, flexibility, disposables  Process control and optimisation	Flow chemistry symposium (Beginn: 9:55)				11:00 <b>ACHEMA worldwide Business Forum: Revolutionizing Distribution and Supply Channels of China's Process Industry</b> Hall 1.1, Logistics Hotspot 11:00 <b>Automation in Dialogue</b> Hall 11.0, Stand F59 12:00 <b>perspectives 2018: Wo bleibt der Mensch?</b> (in German only) Portalhaus, Transparenz 13:00 <b>Event for Pupils</b> Hall 8.1, Symmetrie 2+3 14:00 <b>GDCh: Arbeiten im Zeitalter von Industrie 4.0</b> (in German only) DECHEMA House, Max Buchner Auditorium
	Modular plant concepts II										
<b>Hall 4.0, Europa: Plenary lecture Sustainable chemical value chains: New perspectives for sector coupling Leitner / Steilemann</b>											
safety 20/20	Raw materials and alternative feedstocks	PRAXISforum: Pharma meets production  Holistic approaches for the processing of raw materials	Nickel Alloys for today's process industry  Experiences, applications and perspectives	PRAXISforum: Lab of the future		PRAXISforum: Bioprocessing: Speed, flexibility, disposables  Novel bioprocess technologies	Flow chemistry symposium (Beginn: 14:45)				
		Dosage forms, fill and finish									
and safety	Raw materials and alternative feedstocks	PRAXISforum: Pharma meets production  Integrity and risk management	PRAXISforum: Innovative mixing and separation solutions  Separation and mass transfer technologies		PRAXISforum: State-of-the-art in fluid handling  Pumps, dosing and flow measurement	Botting technologies		PRAXISforum: Future production		PRAXISforum: Sensor-based production control  Smart sensing	10:00 <b>jobvector Career Forum</b> Hall 9.2, Discussion Corner 10:30 <b>WaterVent @ACHEMA – Corporate Venturing Forum in the water tech nexus</b> Hall 4.C, Alliance 11:00 <b>Automation in Dialogue</b> Hall 11.0, Stand F59 11:00 <b>China Reception</b> Forum, Panorama 3 17:00 <b>ACHEMA Media Award</b> Hall 9.2, Stand D74
and fire tion	Biorefining processes										
<b>Hall 4.0, Europa: Plenary lecture DECHEMA prize winner lecture: Visible-light photoredox catalysis in flow – Towards a sustainable production of pharmaceuticals Noël</b>											
and safety	Raw materials and alternative feedstocks		PRAXISforum: Innovative mixing and separation solutions  Separation and mass transfer technologies		PRAXISforum: State-of-the-art in fluid handling  Cooling and fluidic handling components			PRAXISforum: Future production		PRAXISforum: Sensor-based production control  Smart applications	
odel to ice	Biobased chemicals										
and safety	Raw materials and alternative feedstocks	PRAXISforum: Pharma meets production  Integrity and sterility									10:00 <b>Informationsplattform für Ingenieure in der Produktion</b> (in German only) Hall 9.2 Discussion Corner 11:00 <b>Automation in Dialogue</b> Hall 11.0, Stand F59
ds and re for ly	Alternative feedstocks										

Das ausführliche Vortragsprogramm finden Sie unter [www.achema.de/kongress](http://www.achema.de/kongress)  
The complete lecture programme is available at [www.achema.de/en/congress](http://www.achema.de/en/congress)





**Public transport:**

-  S-Bahn (surface rail)  
Lines S3, S4, S5, S6
-  Underground Line U4  
Bockenheim-Warte - Enkheim
-  Tram 16 Offenbach - Ginnheim  
Tram 17 Rebstockbad - Neu-Isenburg
-  Line 50 Unterliederbach West > via Höchst Bahnhof -  
Bockenheim Warte > via Rebstockbad

-  Express bus  
Airport
-  Shuttle bus Car Park Rebstock
-  Taxi
-  Bus stop
-  Tram stop
-  Access to car park



## » Automation in Dialogue

**Monday, 11 June to Friday, 15 June 2018**

Hall 11.0, Stand F59

NAMUR, ARC Advisory Group and ZVEI are again hosting their joint Forum entitled "Automation in Dialogue" at AACHEM 2018. During all five days of the exhibition, a variety of events and talks on important issues of process automation will take place here.

In addition to interesting panel discussions and presentations, the session "Meet the Experts" will provide information about current topics. Afterwards, these presentations can be discussed in depth with the experts in the informal setting of the Forum. The focus will be on topics such as automation for modular plants, automation security, energy and resource efficiency as well as current developments regarding Industry 4.0 and IT/OT convergence. Furthermore, the Forum will deliver significant content on asset performance, explosion protection and functional safety.

At the Forum, a new format will premiere – "Toxic Talk: Industry Experts in Dialogue" is a session in which two experts will discuss hot industry topics controversially.

## » Discussion Forum Automation in Dialogue organized by



Time	Mon. 11 June 2018	Tues. 12 June 2018	Weds. 13 June 2018	Thur. 14 June 2018	Fri. 15 June 2018
11:00 – 11:45 h	<b>Presentation</b> Herausforderungen und Lösungsansätze zur datengetriebenen Zustandsüberwachung von Ventilen – Ergebnisse des Projektes SIDAP Birgit Vogel-Heuser, TUM	<b>Meet the Experts</b> Breakfast Talk Ethernet goes Process – wie bringt man Ethernet und Explosionsschutz unter einen Hut? Stephan Schultz, R. Stahl	<b>Meet the Experts</b> Breakfast Talk Höhere Energieeffizienz durch Digitalisierung – Hersteller und Anwender diskutieren Use Cases Eckhard Roos, Festo	<b>Meet the Experts</b> Breakfast Talk Mehr Funktionalität und Diagnose in Feldgeräten – Sinn oder Unsinn aus sicherheitstechnischer Sicht? Dirk Hablawetz, BASF	<b>Meet the Experts</b> Breakfast Talk 5G – Was Sie schon immer über die nächste Mobilfunkgeneration wissen wollten Andreas Müller, Bosch
12:00 – 12:45 h	<b>Presentation</b> Process Automation Market – Today and Tomorrow *) Thomas Menze, ARC Moderation: Peter Ebert, inVISION	<b>Toxic Talk</b> Industry Experts in Dialog Homo Sapiens vs. Artificial Intelligence: Who serves whom? *) Moderation: ARC	<b>Toxic Talk</b> Industry Experts in Dialog Chances of Successful Integration and Adoption of the Open Standards – Open Process Automation (OPA), NAMUR Open Architecture (NOA) and Modular Control (MTP) *) Moderation: ARC	<b>Toxic Talk</b> Industry Experts in Dialog Pros and Cons of Industrie 4.0 Compared to Other Initiatives *) Moderation: ARC	<b>Presentation</b> Status of Establishing Micro- and Millireactors *) Joachim Ehrfeld, Ehrfeld Mikrotechnik GmbH Moderation: Volker Oestreich, CHEManager
14:00 – 14:45 h	<b>Presentation</b> IT/OT Convergence *) Thomas Menze, ARC Moderation: Peter Ebert, inVISION	<b>Panel Discussion</b> Digitalisierung bis ins Feld – mit MTP und NOA modulare und offene Architekturen schaffen Moderation: CAV, Konradin Verlag	<b>Panel Discussion</b> 5G – Chancen und Herausforderungen für die Industrie Moderation: VDE Verlag	<b>Panel Discussion</b> Fiktion oder Vision? Autonome Wertschöpfungsketten in der Prozessindustrie. Ein 8-Augen-Talk von und mit Chief Digital Officers. Moderation: PROCESS	
15:00 – 15:45 h	<b>Meet the Experts</b> Tea Talk Wandel der Prozessanalytik vom geduldeten Exot zur Informationsquelle der digitalisierten Automation Dirk Steinmüller, Knick; Michael Maiwald, BAM; Martin Gerlach, Bayer	<b>Meet the Experts</b> Tea Talk Security for Safety – erste Erfahrungen mit NAMUR NA 163 Erwin Kruschitz, anapur	<b>Meet the Experts</b> Tea Talk Mit Datenanalyse zu höherer Anlagenverfügbarkeit – Was ist heute bereits möglich und was bringt die Zukunft? Stefan Brüggeman, BASF	<b>Meet the Experts</b> Tea Talk Digitale Servicekonzepte im Zeitalter von Industrie 4.0 Jan Kiehne, Siemens; Dörthe Sack, Siemens	

\*) English session

## » International Powder and Nanotechnology Forum 2018

**Tuesday, 12 June to Wednesday, 13 June 2018**

CongressCenter Messe Frankfurt (CMF)  
Room Spektrum

IPNF2018 is the forum for the exchange of ideas between industry and academia and a platform for interdisciplinary cooperation in the field of powder technology. This fourth event at ACHEMA is organized with the joint support of the Society of Chemical Engineers, Japan (SCEJ) and DECHEMA.

It gives us great pleasure to invite all participants at ACHEMA to learn about the latest developments in the field of powder technology, in particular about innovations and technological trends in Japan. The Forum will present cutting-edge technology, the key themes being materials, nanotechnology/biotechnology, crystallization, pharmaceutical science and technology and also simulation and modeling. These themes reflect not only strengths specific to the Japanese process industry, but at the same time concern many sectors of the process industries in general, from the chemical and pharmaceutical industry to the energy sector through to environmental technology.

### ORGANISER

Committee of the International Powder and Nanotechnology Forum 2018 (IPNF2018)

#### Honorary Chairs:

Y. Kawashima, Aichi Gakuin University/J  
J. Ulrich, Martin-Luther-Universität Halle-Wittenberg/D

#### Chairs:

H. Kamiya, Tokyo University of Agriculture and Technology/J  
S. Mathur, Universität Köln/D  
H. Takeuchi, Gifu Pharmaceutical University/J  
D. Zahn, Erlangen University/D  
Y. Shirakawa, Doshisha University/J

#### Secretariats:

H. Yamamoto, Aichi Gakuin University/J  
M. Sakai, University of Tokyo/J

# IPNF 2018

### SCHEDULE

see also [www.achema.de/congress/IPNF](http://www.achema.de/congress/IPNF)

### Plenary and keynote lectures

#### Tuesday, 12 June 2018

10:30 – 13:00 h Session 1: Simulation and modeling  
13:00 – 15:00 h Poster Session  
15:00 – 17:00 h Session 2: Nanotechnology / Biotechnology

#### Wednesday, 13 June 2018

10:30 – 13:00 h Session 3: Pharmaceutical science and technology  
13:00 – 15:00 h Poster Session  
15:00 – 17:30 h Session 4: Crystallization

### Exhibition stand

#### Monday, 11 June to Friday, 15 June 2018

**10:00 – 17:00 h**

Hall 5.1, Stand A50

### Poster exhibition

**Tuesday, 12 June and Wednesday, 13 June 2018**

**13:00 – 15:00 h**

CongressCenter Messe Frankfurt (CMF),  
Room Spektrum

The poster exhibition presents in condensed form points of departure for an international exchange of ideas between science and applied research as well as business opportunities for a wide range of sectors.

For the latest information and updated conference program, please visit [www.ipnf2018.com](http://www.ipnf2018.com). Participation in the Powder and Nanotechnology Forum 2018 is free and open to all ACHEMA visitors bearing a valid day or season ticket. No registration is necessary. The conference language is English.





## » International Symposium

### SAFETY AND HEALTH PROTECTION IN THE SUPPLY CHAIN OF CHEMICALS

**Tuesday, 12 June 2018 9:30–17:15 h**

DECHEMA House, Franz Patat Auditorium  
(access directly from the ACHEMA fair grounds,  
rear side of Hall 6)

Chemicals are integral constituents of our living and work environment – for instance, they are found in products relating to mobility, communication, health protection, and construction. In order to manufacture these products, many steps are necessary. First, raw materials have to be converted into basic chemicals, which then need to be transported from the manufacturer to the processing plants. From there, the finished products are again in transit to the industrial end-users, or the consumers. All these steps often take place in separate locations and would not be possible without transportation connecting the various stations in the life cycle of a chemical substance.

The significance of transport across the borders of nations and continents is constantly increasing in our ever more globally networked occupational and living environments. The safety and health protection of employees who might come into contact with the products at the individual stations are important concerns of the ISSA Chemistry Section and the ISSA Transportation Section.

The two sections are jointly organizing an international symposium during ACHEMA with contributions on the following key issues:

- Rules and regulations
- Classification and labelling
- Interfaces: Transporting dangerous goods – handling hazardous substances
- Packaging requirements
- Risk assessment
- Requirements for the transportation of dry ice
- Loading and unloading hazardous substances
- Storage and availability for transport and use
- Cargo security



*Section on Prevention in the Chemical Industry*

- Safety of vehicles
- Cleaning containers and tank trucks
- Health hazards through contact with chemicals
- Emergency measures and organization taking the example of TUIS (transport accident information and assistance system)

### REGISTRATION AND INFORMATION

**The symposium is free of charge and open to all interested persons who register in conjunction with a valid ticket to ACHEMA 2018.**

Registrations can be made informally by e-mail to Michaela Frenzel who will also answer all organizational questions. (e-mail: michaela.frenzel@bgrci.de). For content-related enquiries, please contact Antje Ermer (e-mail: antje.ermer@bgrci.de, Tel.: +49 6221 5108-28380).

Please find up-to-date information, as well as the detailed programme, at [www.ivss-chemie.de](http://www.ivss-chemie.de), [www.issa.int/de\\_DE/web/prevention-chemistry/section-events](http://www.issa.int/de_DE/web/prevention-chemistry/section-events) and [www.issa-transportation.org](http://www.issa-transportation.org) "Section Events".

All contributions and discussions will be translated simultaneously into German/English/French.

### THE ORGANIZERS

The ISSA Chemistry Section and ISSA Transportation Section are dedicated to the prevention of sector-specific accidents and occupational health hazards within the ISSA (International Social Security Association).

Together with Heidelberger Verein zur internationalen Förderung der Prävention in der chemischen Industrie e.V. (Heidelberg Association for International Promotion of Prevention in the Chemical Industry), the ISSA Chemistry Section regularly addresses current topics.



*Section on Prevention in Transportation*

### IN CONNECTION WITH THE SYMPOSIUM

Exhibition stand of BG RCI in Hall 9.1, stand A84.

The stand of the German Employers' Liability Insurance Association for the Raw Materials and Chemical Industry (BG RCI) is entirely in keeping with the motto of the prevention strategy "VISION ZERO. Zero Accidents – Healthy Working!".

Specialized presentations will cover the topics "Transport and Storage of Hazardous Substances" as well as "Healthy and Safe Leadership" together with numerous interactive exhibits. Visitors can obtain practical information and competent advice on the following: storage of hazardous substances, dangerous goods interfaces, in-plant transport, as well as healthy and safe leadership. The exhibits will be complemented by an interesting programme including

- Experimental lectures
- Stage shows on and around the exhibits
- Daily competitions with prizes

The detailed programme and current information on the BG RCI stand are available at [www.bgrci.de](http://www.bgrci.de) or from Dr. Beatrice Spottke (e-mail: [beatrice.spottke@bgrci.de](mailto:beatrice.spottke@bgrci.de)).



## » perspectives 2018: Digitization – What about People?

THE EVENT FOR THE CHEMICAL AND PHARMACEUTICAL SITE GERMANY – HOSTED BY INFRASERV HÖCHST

Wednesday, 13 June 2018

12:00 – 18:30 h

Portalhaus (Hall 11), Room Transparenz

Everybody is talking about digitization. It will make markets and companies more effective – and radically change our working and living conditions. For this reason, perspectives 2018 focuses on the crucial question “Digitization – What about People?”

Our prominent keynote speakers are Richard David Precht (philosopher), Michael Heraeus (entrepreneur) and Francesco Grioli (Executive Board IG BCE, a trade union).

Registration: [www.infraserv.com/perspectives](http://www.infraserv.com/perspectives)

The number of participants is limited. The event addresses entrepreneurs, managers and experts from the industry. A registration does not automatically entitle you to participate, but must be confirmed by Infracerv Höchst.

Infracerv Höchst with its headquarters in Frankfurt am Main is an operator of technically advanced infrastructure and the partner for companies in the chemical, pharmaceutical and related industries.

The event will be held in German.

## » Watervent@ACHEMA

Thursday, 14 June 2018

10:30 h

Hall 4.C, Room Alliance

**WaterVent – Corporate Venturing Forum in the water tech nexus**

WaterVent can be perceived as a corporate venturing forum in the water tech nexus. Water technology innovators have to cope with two main challenges:  
I. Funding (by VC, corporates, charities and foundations, family offices, private individuals, public grants and loans)  
II. Detecting and convincing clients (application references!) – industrial corporates, farmers, real estate owners and utilities which are open minded to giving new and – often – disruptive technologies a trial.

WaterVent is a platform dedicated to matching innovators and representatives of these two groups by showcasing water technology innovations to those who are in need of them or who want to engage in them.

WaterVent has been staged 13 times in Berlin, Zurich, Geneva, Leeuwarden (NL), Dubai, Regensburg (Bavaria), New York, Philadelphia (5).

[www.watervent.com](http://www.watervent.com)







**Wednesday, 13 June 2018**

**14:00 h**

DECHEMA House, Max Buchner Auditorium

### WORK IN THE ERA OF INDUSTRY 4.0

Industry 4.0, the digitization and interconnection of all industrial processes, is creating a buzz and is set to make a profound impact on our working world.

At the ACHEMA Guest Event on Wednesday, 13 June, the Gesellschaft Deutscher Chemiker (German Chemical Society) will take a closer look at those who today and in the future will be working under unprecedented conditions. Our topic coincides with that of the BMBF (German Federal Ministry of Education and Research) Science Year 2018 “Working Worlds of the Future” and gives rise to the following questions: What does “Work 4.0” imply for management and employees? What are the prerequisites for the successful implementation of Industry 4.0 in the different areas of work? Which of them have already been implemented? What still remains to be done? How will working conditions change and what are the implications for management? How do employees want to work in this new age and can this be reconciled with future requirements? These issues will be discussed with experts from industry and professional associations.

Admission is free, guests are very welcome.  
The event will be held in German.

**Tuesday, 12 June and Wednesday, 13 June 2018**

**10:00–12:00 h and 13:00–15:00 h**

Galleria

### AM KNOWLEDGE FOR YOUR PRODUCTION

The two-hour presentation, which will be held on 12 and 13 June 2018 from 10:00–12:00 h and again from 13:00–15:00 h in the Galleria, is geared towards developers, CTOs, and other decision-makers interested in learning more about how they might utilize 3D printing. Among other aspects, participants will find out where the potential of this technology lies and where their own production operations can benefit.

[www.formnext.com/discover](http://www.formnext.com/discover)





## » Information Platform for Plant Engineers

**Friday, 15 June 2018 10:00–12:00 h**

Hall 9.2, Discussion Corner

The “Information Platform for Plant Engineers” is an initiative of VDI-GVC (The Association of German Engineers – Technical Division: Chemical and Process Engineering), addressing practice-oriented problems confronting plant engineers and all aspects of the production plant.

The concept, which facilitates the practice-oriented exchange of ideas and experience within a region, is now established in five regional groups. It will be presented and moderated by experts. Moreover, typical tasks of plant engineers, such as mobile maintenance, spare parts management, pumps, as well as future developments, will be explained and discussed on the basis of short contributions.

### PROGRAMME

#### Moderators:

Jens von Erden, BASF Ludwigshafen  
 Ralf Goedecke, Consulting Process Technology Rodenbach  
 Christian Poppe, Covestro Leverkusen  
 Ljuba Woppowa, VDI e.V. Düsseldorf

#### Introduction

10:00–10:15 h  
 Introduction to the Information Platform (concept, regional groups, tasks of plant engineers)

#### Professional profile of the plant engineer

10:15–10:30 h  
 What the profession involves today and new demands of a digital world

#### Topical maintenance issues

10:30–10:50 h  
 Benefits of digitization, VDI 2770 Digital manufacturer information



- 10:50–11:10 h  
Mobile maintenance
- 11:10–11:30 h  
On-site inspections using drones
- 11:30–11:34 h  
VDI Certification Course for Plant Engineers

#### Close of event and discussion

11:45–12:00 h  
 Future topics and forthcoming events of the regional groups.

The event will be held in German.

### MOTIVATION

In keeping with their motto “Nothing works without us”, plant engineers have a great responsibility and a heavy workload. The Information Platform for Plant Engineers as well as the new VDI Certification Course for Plant Engineers has made a name for itself as an active special interest group and major training initiative. Plant engineers meet regularly in the different regional groups and VDI working parties to discuss topical themes encountered in their working environment, build up a network and exchange practice-oriented ideas and information. Therefore, today the VDI Technical Division “Operation of process engineering plants” represents the professional base for technical exchange on this topic. For detailed information: [www.vdi.de/gvc/betrieb](http://www.vdi.de/gvc/betrieb).



Source: Thomas Ernsting/LAF



For updated information and registration for the Study Courses, please visit [www.achema.de/studienzyklus](http://www.achema.de/studienzyklus).  
Deadline for registrations: 30 April 2018

## » Events for Pupils

**Tuesday, 12 June and Wednesday, 13 June 2018,  
at 13:00 h**

Hall 8.1, Room Symmetrie 2 and 3

What are “the process industries” exactly? Who works there? Describe an average working day! What qualifications do you need to get started? At these one-hour information events process engineering, chemistry and biotechnology students will talk about their everyday life as a student and answer questions from the audience. Young professionals will describe their experiences at the beginning of their careers and give tips on how to make a successful career start.

## » ACHEMA Study Courses

**Monday, 11 June to Friday, 15 June 2018**

Students from universities, universities of applied sciences and higher education institutions (including PhD students) can visit ACHEMA 2018 free of charge provided they have been registered as a group in advance and are accompanied by a member of their teaching staff to supervise the group at ACHEMA.

Similarly, secondary school groups (recommended from 10th grade) can visit ACHEMA free of charge if they have been registered as a group and are accompanied by their subject teacher.

## » Teacher Programme

**Monday, 11 June 2018 14:30 h**

Hall 9.2, Room Dialog

What’s new in process engineering and biotechnology? How does this impact our everyday lives? Representatives from industry, universities and research institutions will present hot topics that you can integrate into your ACHEMA visit or your teaching. Exact topics as well as information on recognition as further education in the individual German federal states can be found at [www.achema.de/studienzyklus](http://www.achema.de/studienzyklus).

In the morning and after the lectures teachers are welcome to visit the Congress and Exhibition for their own professional development and to prepare a visit with a school group at no charge.







## CAREER FORUM

### » jobvector Career Forum

The online recruitment portal jobvector is the leading jobs platform for scientists and engineers and the official partner of AICHEMA for careers and recruiting.

**Monday, 11 June to Friday, 15 June 2018**

Hall 9.2, Stand D64

For all visitors to AICHEMA who are interested not only in novel products and sectoral trends but also in career prospects, jobvector's Career Forum is the single point of contact. The jobvector team will be at hand to assist you with all aspects revolving around your career plans. Keynote lectures will offer strategic tips and ideas for your next career moves on all fair days at 11:00 and 14:00 h.

Job hunters will find a wide range of current vacancies from top employers – from small and medium-sized companies through to global players – on the exclusive AICHEMA job wall at the jobvector stand. Here you can also pick up your free copy of our special publication Career Trends with comprehensive information on job profiles and market trends and invaluable tips on the topics careers and applications.

**Thursday, 14 June 2018 10:00 – 16:00 h**

Hall 9.2, Stand D64

#### The recruiting event: the "jobvector Career Forum"

On 14 June 2018 jobvector is organizing an integrated recruiting event at AICHEMA. Numerous companies from the diverse sectors of the process industries will be available for a talk on the spot. No matter whether you're a graduate or an experienced professional – this is your opportunity to contact potential employers directly and to learn more about the career options open to you!



#### Company presentations

Throughout this one-day lecture programme, companies participating in the jobvector Career Forum will present individual entry-level opportunities and inform you about job profiles and career prospects. Pick up invaluable tips for your way up the career ladder and get to know interesting new employers while doing so!

#### CV Check

In cooperation with experienced personnel professionals the jobvector Career Forum also offers you the perfect preparation for the application

process. Bring your application documents and have them analyzed and then optimized by experts! You do not need to register for the CV Check – however, places are limited.

Detailed information about the participating companies, the lecture programme and free registration can be found at <https://www.jobvector.de/karriere-forum/achema>.

Make the most of your visit to AICHEMA 2018 for the next stage of your career – the entire jobvector team is looking forward to welcoming you at the stand!

[www.jobvector.de](http://www.jobvector.de)





## » Frankfurt Evening in the Römer

Tuesday, 12 June 2018

19:00 h

**The traditional Frankfurt Evening, held on the occasion of ACHEMA, will take place in the Römer.**

The joint hosts are the City of Frankfurt am Main, Messe Frankfurt and DECHEMA.

*(by special invitation of the City of Frankfurt only)*

## » Frankfurt City Tours

Frankfurt takes pride in being a cosmopolitan city with interesting historical and modern sights. The Kaiserdom (imperial cathedral) and the unique skyline are within walking distance from each other. A visit to the historical city centre with the Römer (City Hall), the cathedral and St. Paul's Church are a 'must'. World-famous art galleries form a unique culture mile on either side of the River Main: the Museumsufer (museum embankment). In and around Frankfurt there is much to discover besides excellent shops and gastronomic specialities. Its location in the very centre of Germany makes it an ideal starting point for trips by land, sea and air. A variety of ideas can be found on the website of Tourismus+Congress GmbH Frankfurt am Main: <http://www.frankfurt-tourismus.de>.



Photos: © Tourismus+Congress GmbH Frankfurt am Main





# Meet your Friends

## OUTDOOR AREA *Agora*

Monday, 11 June 2018  
from 18:30 h

Outdoor Area Agora / Forum

For exhibitors, journalists and  
ACHEMA visitors







We never have a problem to come up with a reason to celebrate ... and on the evening of the first AACHEMA day no-one will need to think about one for long!



Monday evening, just as the first day of the show is drawing to a close ... would anyone object to rounding off the day with friends, colleagues or business partners in relaxing surroundings? Surely not ... particularly since we've reserved the outdoor area around the water course on the Agora, the most attractive corner of the most attractive exhibition grounds in the world!

Meet your friends, colleagues and acquaintances and let us spirit you away to enjoy culinary delights and hot music. Be our guest – and be part of the AACHEMA community!

Tickets via [www.achema.de](http://www.achema.de) → Visitor Service → General Programme  
Price € 30.00 includes buffet, drinks and VAT

Exhibitors/co-exhibitors are entitled to two free tickets each, subject to availability, which can be activated online. Additional tickets are chargeable and can be booked via the online exhibitor portal.

Accredited journalists each receive one free ticket which is valid after online activation.



**Doctor Blond** – THE party band from the Rhein-Main area, are famous for bringing the house down at all their gigs – and for AACHEMA they've given their solemn word that they'll really go to town for us!

Electrifying music-making combined with an inexhaustible repertoire of pop, soul, Latin, rock and jazz. Their brilliant mix of the latest top hits and swinging favourites of the last few decades will overwhelm you – there's something for everyone! Doctor Blond's fun music-making, sheer enthusiasm and irresistible good-humour is simply infectious!

And all at once the daily grind, hectic pace and stress of the fair will be way over the horizon!



## » Opening hours

### Monday, 11 June to Thursday, 14 June 2018

9:00 to 18:00 h for visitors  
8:00 to 19:00 h for exhibitors

### Friday, 15 June 2018

9:00 to 16:00 h for visitors  
8:00 to 19:00 h for exhibitors

All visitors to ACHEMA and their guests can participate in the Opening Session, subject to registration and availability (see page 15). Please register at [www.achema.de](http://www.achema.de) → Visitor Service.

### Admission tickets

### Admission fee €

#### SEASON TICKETS (not transferable)

- for those employed in trade and industry 80,–
- for those employed in universities, public authorities, associations 60,–
- reduced season ticket rate for students, trainees, pupils, pensioners, the unemployed and disabled 35,–

#### DAY TICKETS

- Day ticket 35,–
- reduced day ticket rate for students, trainees, pupils, pensioners, the unemployed and disabled 6,–

All admission tickets entitle the bearer to visit the exhibition and the lecture programme. Lost or mislaid admission tickets cannot be replaced.

**Please order and print out full-price season and day tickets at [www.achema.de](http://www.achema.de) → Visitor Service. Reduced tickets are solely available at the ticket offices of the exhibition grounds.**





## » Day and season ticket orders

**Day and season tickets** can be ordered on the Internet ([www.achema.de](http://www.achema.de) → Visitor Service).

**Day and season tickets** will also be on sale at the ticket offices at the entrances. Day tickets can only be ordered in advance in quantities of at least 20 tickets (please order at: [tageskarten@achema.de](mailto:tageskarten@achema.de)).

**Day and season tickets** for students, pupils, trainees, the unemployed, handicapped persons and pensioners can only be purchased at the ticket offices on the spot, subject to presentation of the relevant supporting documents/ID.

Advance registration for participants in the **“Study Courses”** and **School groups**, see page 29.

Day and season tickets ordered online are **payable by credit card** (American Express, MasterCard, VISA) or PayPal. On completing your order, please print out your ACHEMA ticket directly.

### CANCELLATION

Day and season tickets are non-returnable and non-refundable.

## » Tickets for the General Programme

Please order tickets for the General Programme on [www.achema.de](http://www.achema.de) → Visitor Service → General Programme. Orders will be confirmed in writing by e-mail. Payment is by credit card (American Express, MasterCard, VISA). You will subsequently receive an invoice, noting receipt of your payment, by post.

### DOCUMENTS

All documents will be available for collection from 11 June 2018 at the Congress Office in the CMF. Unpaid fees can be settled in cash (euros) or by credit card (see above) when picking up the documents.

## » Entrances/Ticket Offices/Service and Information Counters

- City Entrance (tram and “U” train station “Festhalle/Messe”)
- Congress Office CMF (tram and “U” train station “Festhalle/Messe”)
- Hall 3 Entrance (multi-storey car park and Rebstock parking area)
- Torhaus (“S” train station “Frankfurt (Main) Messe”)
- Galleria (multi-storey car park and Rebstock parking area)
- Portalhaus (multi-storey car park and Rebstock parking area)

### SERVICES:

- Day and season tickets (ticket offices)
- General Programme (see page 31)
- RMV TourTickets (see page 38)
- ACHEMA Catalogue (see page 8)
- General visitor information
- Information about DECHEMA e.V.
- Information about the Study Courses (see page 29)

Additionally, accommodation can be booked at the Tourismus+Congress GmbH counters in the Service Center, Hall 4.C (see page 36).

### Congress Office until 8 June 2018

in DECHEMA House:

DECHEMA e.V.  
Congresses  
Theodor-Heuss-Allee 25  
60486 Frankfurt am Main  
Germany

### Visitor information:

E-mail: [visitor@achema.de](mailto:visitor@achema.de)  
Tel.: +49 69 7564-167/-750  
Fax: +49 69 7564-304/-176

### Congress Programme:

Tel.: +49 69 7564-254  
E-mail: [lecture@achema.de](mailto:lecture@achema.de)  
Internet: [www.achema.de](http://www.achema.de) → Congress

### Business hours:

Mon. – Thurs. 8:30 – 17:00 h  
Fri. 8:30 – 15:00 h

### Congress Office from 11 June 2018

in the CongressCenter of Messe Frankfurt (CMF):  
Tel.: +49 69 7564-254

### Lecture Management:

in the CongressCenter of Messe Frankfurt (CMF):  
Tel.: +49 69 7564-254

### Business hours of all offices:

Mon. – Thurs. 8:00 – 18:00 h  
Fri. 8:00 – 16:00 h

## » Accommodation

Accommodation for visitors to AACHEMA 2018 is booked by Tourismus+Congress GmbH Frankfurt am Main. Visitors are **not charged a processing fee**. Tourismus+Congress GmbH Frankfurt am Main acts only as an intermediary. The contract is made between the visitor and the accommodation provider (e.g. hotel, guest-house, etc.). The usual business terms governing accommodation facilities apply. The guest is liable for payment of hotel or private accommodation not occupied or not cancelled with due notice.

Please book accommodation online at [www.frankfurt-tourismus.de](http://www.frankfurt-tourismus.de).

For inquiries, please contact

**Tourismus+Congress GmbH**  
**Frankfurt am Main**  
**Kaiserstraße 56**  
**60329 Frankfurt am Main**  
**GERMANY**

Tel.: +49 69 21230808

Fax: +49 69 21240512

E-mail: [info@infofrankfurt.de](mailto:info@infofrankfurt.de)

**Information can be obtained on the exhibition grounds in Hall 4.C at the following times:**

10 June:	14:00 – 18:00 h
11 June:	8:00 – 18:00 h
12 – 14 June:	9:00 – 18:00 h
15 June:	10:00 – 14:00 h

**FRANKFURT AM MAIN HAUPTBAHNHOF  
 (CENTRAL STATION), ENTRANCE HALL,  
 TOURIST INFORMATION**

**Opening hours:**

Monday – Friday: 8:00 – 21:00 h

Saturday + Sunday: 9:00 – 18:00 h

### CHANGES/CANCELLATIONS

Please notify Tourismus+Congress GmbH Frankfurt am Main immediately of any changes to your booking, mentioning your reservation number. A cancellation fee may be charged for changes or cancellations made without due notice.

## » Service Facilities

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

### POSTAL AND SHIPPING SERVICES

Post Shop – DHL Trade Fairs & Events GmbH  
 Exhibition grounds, Torhaus, Level 3  
 60327 Frankfurt am Main  
 Germany

Collection and Delivery Service  
 DHL Paket, DHL Express, DHL Brief  
 (parcels, letters, express)

Opening hours:

11 – 15 June: 9:00 – 17:00 h

Tel.: +49 69 976714-124

E-mail: [express-service.fairs@dhl.com](mailto:express-service.fairs@dhl.com)

### BANKS

ReiseBank AG, Hall 4.1 Foyer

Opening hours:

11 – 14 June: 9:00 – 17:00 h

15 June: 9:00 – 16:00 h

### CASH POINTS

- City Entrance, Level 0
- Hall 4.1, Foyer
- Torhaus Entrance, "S" train station
- Torhaus, Service Center, Level 3  
 (next to Postal and Shipping Services)
- Galleria Entrance, Hall 9.T
- Portalhaus Entrance, Hall 11

### INTERPRETER SERVICES

BBK-Gesellschaft für moderne Sprachen

Tel.: +49 7274 702770

Fax: +49 7274 702780

E-mail: [info@bbklanguages.com](mailto:info@bbklanguages.com)

### LUFTHANSA

Lufthansa check-in and baggage service in the City Entrance, Level 0

Tel.: +49 69 86 799 799

Opening hours:

12 – 14 June: 8:00 – 17:00 h

15 June: 8:00 – 16:00 h

### SHOPPING FACILITIES

City Entrance: Messe-Shop, and in the Service Center of Torhaus on Level 3

### WELCOME SERVICE – FRANKFURT INFORMATION

in City Entrance, Level 1, provides exhibitors and visitors with, among other things,

- information on places of interest and events in Frankfurt and the surrounding area
- details on using public transport services in the Rhine-Main area (RMV)

Opening hours:

11 – 14 June: 13:00 – 18:00 h

15 June: 11:00 – 16:00 h

### MEETING POINT

Galleria

### CATALOGUE

The printed Catalogue will be available in all entrance areas free of charge while stocks last.

### OBTAINING A VISA

Foreign visitors requiring a visa to enter Germany can request a personal invitation via [www.achema.de/besucherservice](http://www.achema.de/besucherservice). Under no circumstances can DECHEMA take over travel or accommodation costs.

Due to high demand for visa appointments, please allow for longer waiting times at all German embassies.

Please bear this in mind when making your travel arrangements and make an appointment as early as possible at your German embassy!

E-mail: [visa@achema.de](mailto:visa@achema.de)



## » Transport Links

See AICHEMA 2018 Plan on page 22.

### BY CAR:

The multi-storey car park and the car parks in the Rebstock area are easily accessible from the motorway (day ticket multi-storey/Rebstock car park: € 17.00/€ 12.00). During AICHEMA, a free shuttle bus service will operate every 5–10 minutes between these car parks and the exhibition grounds (Galleria, Portalhaus Hall 11 and Hall 3 entrances).

Schedule:

10 June:	8:00–22:00 h to Tor Süd (South Gate)
11–14 June:	7:45–23:00 h
15–16 June:	7:45– 2:00 h (last departure, direction Rebstock)

Use “Zum Messeparkhaus Rebstock” in your satellite navigation.

### LOW-EMISSION ZONE IN FRANKFURT AM MAIN

Since 1 January 2012 only vehicles bearing the **green sticker** may enter the low-emission zone. For vehicles registered in or outside Germany, the required environmental sticker, indicating the relevant emissions group, can be obtained at [www.umwelt-plakette.de](http://www.umwelt-plakette.de).

For vehicles without an environmental sticker, access to the exhibition grounds is only possible via Tor West (West Gate) and Tor Nord (North Gate). These gates can be reached via the A648 motorway (coming from the A5) taking the “Rebstock” exit or via the Katharinenkreisel (roundabout). The Rebstock multi-storey car park can also be reached via the “Rebstock” exit.

### CHARGING STATIONS

A parking space with an electrical outlet can be reserved for you, on request. The availability of charging stations is limited, the network still being under development. Please order early: [emobil@messefrankfurt.com](mailto:emobil@messefrankfurt.com)

### BY RAIL:

Frankfurt am Main Hauptbahnhof (central railway station) is easy to reach by train. Information can be obtained at all Deutsche Bahn (DB) ticket offices, at your travel agency or at <http://www.bahn.de>. Please note Deutsche Bahn AG’s **Event Ticket** to AICHEMA 2018 from any DB station in Germany to Frankfurt am Main and back: from € 99.00. for details, see page 38. From Frankfurt am Main Hauptbahnhof (central railway station) to Frankfurt Messe (exhibition grounds):

- S-Bahn (surface rail) lines S3/S4/S5/S6, departing from the underground platform 104, exit at Frankfurt Messe (exhibition grounds) station
- Tram nos. 16 and 17 to Festhalle/Messe (exhibition grounds), City entrance
- U-Bahn (underground) line U4 (direction Bockenheimer Warte) to Festhalle/Messe (exhibition grounds), City entrance
- approx. 15 minutes’ walk via Düsseldorf Straße and Platz der Republik to Friedrich-Ebert-Anlage, City entrance

### BY AIR:

There are direct flights daily to Frankfurt am Main from many European capitals and industrial centres. The quickest connections from the airport to the exhibition grounds (Messe Frankfurt) are:

- S-Bahn (surface rail) lines S8 and S9 from the Regionalbahnhof (regional train station) to Frankfurt am Main Hauptbahnhof (central railway station) with the RMV TourTicket
- Airport Express bus from Terminal 1 (Arrivals level, charter bus platform) via Terminal 2 (bus stop in Exit E area) to the exhibition grounds (Portalhaus Hall 11 entrance) and back. This link is a special service and is **not** included in the price of the RMV TourTicket. A single ticket costs € 7.50.

Schedule Airport → Exhibition grounds:

11–15 June:	8:00–12:00 h every 10 minutes
	12:00–14:00 h every 15 minutes

Schedule Exhibition grounds → Airport:

11–15 June:	14:00–19:00 h every 10 minutes
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## » Fare Reductions

The **RMV TourTickets** are a special service provided by DECHEMA and the public transport authority Rhein-Main-Verkehrsverbund (RMV) for exhibitors and visitors to AACHEMA 2018.

Two types of tickets are available:

### Ticket A

Valid throughout the entire area covered by RMV (including the urban areas of Darmstadt/Erbach, Marburg/Fulda/Dillenburg, Limburg, Rüdeshheim/Wiesbaden/Mainz, Hanau). Price: € 44.80\*).

### Ticket B

Valid only in the Frankfurt city area, including the airport. Price: € 21.30\*).

Both RMV TourTickets are valid for the period 10 to 15 June 2018 (= 6 days). RMV TourTickets can be purchased at the following sales outlets.

- Frankfurt am Main Hauptbahnhof (central station) at Tourist Information in the Arrivals Hall
- City Entrance, Information counter
- Congress Office in the CMF, Information counter
- Hall 3 Entrance, Information counter
- Torhaus Entrance, Information counter
- Galleria Entrance, Information counter
- Portalhaus Entrance, Information counter

Please sign the reverse of the ticket upon receipt. RMV TourTickets are non-transferable. They entitle the holder to use the extensive RMV network (S-Bahn (surface rail), U-Bahn (underground), tram and bus\*) with its coordinated timetables. The RMV will provide additional trains for AACHEMA 2018. RMV network plans can be obtained from all ticket sales outlets. Information can be found on the Internet at [www.rmv.de](http://www.rmv.de).

\*) does not include the special Airport Express bus

### En route with green energy to AACHEMA 2018 with Deutsche Bahn's Event Ticket – from € 99.00

With Deutsche Bahn's Event Ticket you will travel in long-distance trains powered by 100 % renewable energy sources, thus substantially reducing the carbon footprint of AACHEMA 2018!

The fixed prices\* from any DB station in Germany are

- if booked for a **specific** train connection only:  
2nd class € 99.00, 1st class € 159.00
- if booked for use on **any** train (for more flexibility):  
2nd class € 139.00, 1st class € 199.00

no matter which DB station you commence your journey from. This special offer entitles you to travel on all DB trains, including ICEs (InterCity Express) and "S" trains.

The tickets are valid from 9 to 17 June 2018 for a non-recurring return trip. The ticket is valid for two days in each direction.

Event Tickets can be booked online ([www.achema.de](http://www.achema.de) → Visitor Service → Travel) or by telephone via the DB hotline number (+49 1806 31 11 53\*\*, quoting "AACHEMA" as the reference). Please have your credit card ready for payment.

Deutsche Bahn will be pleased to quote the ticket price for international connections, on request.

\* Bookings must be made at least 1 day in advance. Ticket sales for **specific** train connections subject to availability. With some credit cards Deutsche Bahn levies a surcharge of max. 1 % of the purchase price. Tickets can be exchanged or refunded up to and including the day before their first day of validity. A rebooking/cancellation fee per ticket will apply. From the first day of validity onwards refunds are no longer possible. The terms and conditions for exchange and refund at the time of booking apply in accordance with the DB conditions of carriage for special offer fares ("Sparpreise").

\*\* You can call the hotline from Monday to Friday from 8:00 h to 20:00 h Central European Time. Telephone charges are € 0.20 per call from a German landline, max. € 0.60 per call from German mobile networks. Prices are subject to change without notice. Errors and omissions excepted.



Contact addresses are available  
in the following countries:

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www.ahkrs.com.br

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www.cavenal.org

Travel agents and contact  
addresses in other countries are  
available on the Internet at  
[www.achema.de](http://www.achema.de) → Visitor Service  
→ Travel Information.



All information – press releases, trend reports, graphics, schedule – and accreditation online at <http://presse.achema.de> or, during ACHEMA, in the ACHEMA Press Centre.

## » ACHEMA PRESS CENTRE

Torhaus, Level 4

**Monday, 11 June to Thursday, 14 June 2018**

8:30 to 18:30 h

**Friday, 15 June 2018**

8:30 to 14:00 h

### CONTACT:

ACHEMA Press Office  
Theodor-Heuss-Allee 25  
60486 Frankfurt am Main  
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Tel.: +49 69 7564-277, -296, -375  
Fax: +49 69 7564-272  
E-mail: [presse@dechema.de](mailto:presse@dechema.de)

## » ACHEMA SPECIALIST PRESS DAY

**Wednesday, 14 March 2018 9:30–16:00 h**

DEHEMA House

Industry representatives and exhibitors will present up-to-date information on technologies, trends and background, and give a rundown on ACHEMA 2018 and the key topics and themes.



## » OPENING PRESS CONFERENCE

**Monday, 11 June 2018 9:30 h**

CMF, Room Spektrum 1 and 2

Facts and figures at the start of ACHEMA: What is in store for exhibitors and visitors? What trends impact events in the halls and lecture theatres? Directly afterwards: the Opening Session of ACHEMA

## » PRESS BREAKFAST

**Wednesday, 13 June 2018 10:00 h**

ACHEMA Press Centre, Torhaus, Level 4

The organizers and industry representatives discuss trends and the general “feel” at half-time.



# ACHEMASIA 2019

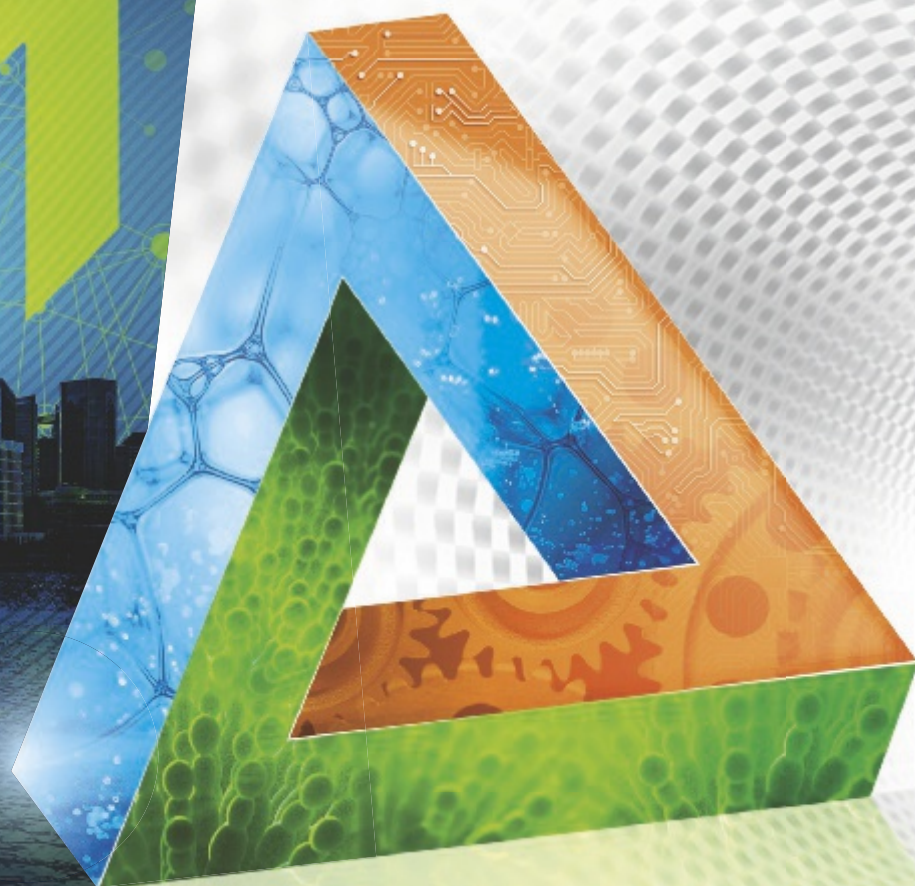
# ACHEMA 2021

- Process Technology
- Pharma Technology
- Industrial Water Management
- Plant & Process Safety
- Digitalization

21–23 May 2019  
Shanghai, PR China

International Expo and Networking Event  
for Sustainable Chemical Production

[www.achemasia.de](http://www.achemasia.de)



14–18 June 2021  
Frankfurt am Main, Germany

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[www.achema.de](http://www.achema.de)





# ACHEMA

2018 11 – 15 June  
Frankfurt / Main

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