

Session vormittags um 10:00 – 12:00 Uhr, Session nachmittags um 14:30 – 17:00 Uhr
 Das ausführliche Vortragsprogramm finden Sie unter www.achema.de/kongress und in der App.

	Raum	Frequenz 1	Frequenz 2	Granat	Korall	Karmesin	Symmetrie 2	Symmetrie 3	Encounter	Europa	Consens	Entente	
	Halle	Portalhaus Via	Portalhaus Via	11.0	11.0	11.0	8.1	8.1	5.0	4.0	4.C	4.C	
Montag, 10.6.2024	Vormittag	Thema			#hydrogen: Transport and storage		#process: Process engineering	#process: Process engineering	#green: Circular economy		#process: Process engineering	#green: Industrial biotech	
	Session-Titel				Properties of materials for hydrogen applications		Enhancing plant productivity by intelligent detail engineering	Smart multiphase processes	Towards a circular economy of plastics I		Standardized method for equipment performance assessment in fouling-prone applications	Industrial biotechnology – Producing food and processing side streams	
	13:00 – 14:00 Uhr	Halle 4.0, Saal Europa: #pharma: Highlight Session “Next generation pharma manufacturing – Current advances in cell and gene therapy”											
Nachmittag	Thema	#lab: Imaging and sensing		#digital: Process industry transformation	#hydrogen: Transport and storage	#process: Materials and material processing	#process: Process engineering	#green: Circular economy	#green: Circular economy		#process: Process engineering	#green: Industrial biotech	
	Session-Titel	New measurement techniques of nanoparticles and online process control		Interoperability of plants and processes	Safety for hydrogen applications	Analytics and optimization in materials and material processing	New advances in sensor technology	The contribution of Carbon Capture and Utilisation (CCU) in the chemical sector	Towards a circular economy of plastics II		Heat integration in process industry through mechanical vapour recompression – WindaB	Industrial biotechnology – Establishing and scaling-up production	
17:00 Uhr	Halle 4.0, Saal Europa: ACHEMA Opening “New global framework conditions: How is the process industry positioning itself?”												
Dienstag, 11.6.2024	Vormittag	Thema		#digital: AI and data analytics	#digital: Process industry transformation	#digital: Process industry transformation	#digital: Modular production	#process: Process engineering	#process: VDI-Informationsplattform	#green: Climate-neutral production	#hydrogen: (Global) Ecosystem	#green: Sustainability in production	#hydrogen: Water-for-X
	Session-Titel			AI-based sensing and control	Emerging (digital) technologies in process industries	PIDMIC 3.0 – Process Industry Data Management Integration Congress 3.0 I	Flow chemistry and modular production	New developments for chemical processes	Informationsplattform für Ingenieure in der Produktion (in German only)	Climate neutral production – CCU strategies and plasma applications	Operation of hydrogen production plants	Best practise and challenges of corporate sustainability reporting in the process industry	Water-for-X: Key for sustainable PtX
	13:00 – 14:00 Uhr	Halle 4.0, Saal Europa: #hydrogen: Highlight Session “Hyperscaling hydrogen – Turning strategy into reality”											
Nachmittag	Thema	#lab: Digitalised, miniaturised, automated	#digital: AI and data analytics	#digital: Process industry transformation	#digital: Process industry transformation	#process: Materials and material processing	#process: Process engineering	#digital: Modular production	#green: Climate-neutral production	#hydrogen: Production and hyperscaling	#process: Electrified and flexible	#process: Sustainable production systems	
	Session-Titel	Future-oriented technologies – Automation, augmented reality and sustainability in the laboratory sector	AI-based modelling and engineering	After 10+ years of digitalization in the chemical industry – Achievements, challenges and outlook	PIDMIC 3.0 – Process Industry Data Management Integration Congress 3.0 II	Surfaces and corrosion in materials and material processing	New advances in process engineering	Modularisation in chemical, pharma and bio production	Carbon management strategies for the industry	Optimizing electrolyzer operation	Electrifying chemical processes	GeCats – Variety of catalysis research	
Mittwoch, 12.6.2024	Vormittag	Thema	#lab: Digitalised, miniaturised, automated	#digital: AI and data analytics	#digital: Process industry transformation	#digital: Process industry transformation	#process: Materials and material processing	#process: Smart engineering and operations	#process: Process engineering	#green: Climate-neutral production	#green: New materials for sustainability	#process: Mixing and separation	#green: Industrial water
	Session-Titel	Innovations in automated process control and optimization in laboratory and biotechnology	AI to foster the potential of process data	Digitalization and manufacturing execution systems	PIDMIC 3.0 – Process Industry Data Management Integration Congress 3.0 III	Innovative applications of porous materials	PAT for energy efficiency	Flow Chemistry Symposium I	Reaching emission targets – Industrial examples of GHG reduction I	Sustainable materials from lignocellulose derived feedstocks	Membranes and membrane processes – Important contribution to energy efficiency and environmental protection I	Challenges in industrial water management	
	13:00 – 14:00 Uhr	Halle 4.0, Saal Europa: #digital: Highlight Session “Artificial intelligence and autonomous systems in process industry”											
Nachmittag	Thema	#digital: AI and data analytics		#digital: Process industry transformation	#digital: Process industry transformation	#process: Safety and security	#process: Smart engineering and operations	#process: Process engineering	#green: Climate-neutral production	#green: Industrial biotech	#process: Mixing and separation	#process: Electrified and flexible	
	Session-Titel	AI-assisted operation support		(Digital) Standards and trends in process industries	PIDMIC 3.0 – Process Industry Data Management Integration Congress 3.0 IV	Development of improved devices and components enabling highest safety levels	Harvesting PAT data	Flow Chemistry Symposium II	Reaching emission targets – Industrial examples of GHG reduction II	Novel biological production systems and products – Sustainable solutions from biological engineering	Membranes and membrane processes – Important contribution to energy efficiency and environmental protection II	GeCats – Electrifying catalysis	
Donnerstag, 13.6.2024	Vormittag	Thema	#lab: Imaging and sensing	#digital: Process industry transformation	#digital: Autonomous systems	#process: Safety and security	#process: Plant design and maintenance	#process: Process engineering	#process: Mixing and separation	#green: Climate-neutral production	#green: Circular economy	#green: Climate-neutral production	
	Session-Titel	Sensing for circular economy		Advancing process excellence in PAT and autonomous operations	Autonomous systems in site and plant operations	Insights for safety – Challenges today and tomorrow	Equipment design – Mixers, seals, valves and heat exchangers	Flow Chemistry Symposium III	Innovative mixing and separation solutions	Climate neutral production – Carbon Capture	Circular economy solutions for inorganic materials	Greenhouse gas reduction in the basic materials industry (KlimPro Industry)	
	13:00 – 14:00 Uhr	Halle 4.0, Saal Europa: #green: Highlight Session “Beyond fossil fuels – Exploring alternative carbon sources for a sustainable chemical industry”											
Nachmittag	Thema	#lab: Imaging and sensing	#digital: Process industry transformation	#digital: Modular production	#process: Safety and security	#process: Plant design and maintenance	#process: Process engineering	#green: Circular economy	#green: Climate-neutral production	#green: Sustainability in production	#process: Process engineering		
	Session-Titel	Concepts and challenges for instrumental odor monitoring systems	Design and use of a Digital twin	Modular process automation	Latest developments in using resources adequately for safety – Performing efficient and effective safety studies and safety design	Digital tools for predictive maintenance and environmental targets	Flow Chemistry Symposium IV	Extraction processes for metals recovery	Climate neutral production – Enabling CCU pathways	Concepts and examples of carbon footprint assessment in the process industry	GeCats – From catalysis to process		
Freitag, 14.6.2024	Vormittag	Thema	#lab: Link with production and quality	#digital: Process industry transformation		#process: Safety and security			#green: Circular economy		#green: Circular economy		
	Session-Titel	From research to production with intelligent experiment design and automation		Advanced process optimization and control		Best practice, classifications and models to increase process safety			Sourcing and recycling of battery raw materials and acids		Critical raw materials from alternative sources for industrial application – By EU funded project Sea4Value		
12:00 – 13:00 Uhr	Halle 4.0, Saal Europa: #process: Highlight Session “Nature as a role model – Maximum resource efficiency in the chemical industry”												

■ process innovation
 ■ pharma innovation
 ■ green innovation
 ■ digital innovation
 ■ lab innovation
 ■ hydrogen innovation

Alliance	Concorde	Facette	Kontrast	Max-Buchner-Hörsaal
4.C	4.C	3.Via	3.Via	DECHEMA-Haus
#hydrogen: Production and hyperscaling Analysis and controlling for hydrogen technologies	#hydrogen: PtX processes and applications Chances and challenges of Power-to-X in Argentina, Morocco and South Africa	#pharma: ATMP equipment and processes Manufacturing advanced (bio) pharmaceuticals I		
#hydrogen: Production and hyperscaling Alternative feedstocks and hydrogen carriers	#hydrogen: PtX processes and applications Kopernikus P2X – Exploration, validation and implementation of Power-to-X concepts	#pharma: ATMP equipment and processes Manufacturing advanced (bio) pharmaceuticals II		
#process: International Powder and Nanotechnology Forum 2024	#hydrogen: Transport and storage Hydrogen flagship project TransHyDE – Implementing hydrogen	#pharma: Biopharma production PAT in (bio) pharmaceutical production	#green: Climate-neutral production Electrochemical Synthesis of Biogenic Platform Chemicals – ElectroSyn	#process: Safety and security ISSA Symposium – Hazardous substances in maintenance works: risks and prevention I
#process: International Powder and Nanotechnology Forum 2024	#hydrogen: Transport and storage Hydrogen flagship project TransHyDE – Aspects of using hydrogen	#green: Industrial water Water management in the pharmaceutical industry	#green: Circular economy Monomer Recycling of PET and polyester textiles	#process: Safety and security ISSA Symposium – Hazardous substances in maintenance works: risks and prevention II
#pharma: International Powder and Nanotechnology Forum 2024	#hydrogen: Production and hyperscaling H2Mare – Decentral offshore hydrogen and its derivatives	#pharma: Biopharma production Single-use technologies for biopharmaceutical production		#process: Safety and security ISSA Symposium – Hazardous substances in maintenance works: risks and prevention III
#pharma: International Powder and Nanotechnology Forum 2024	#green: Climate-neutral production Engaging industrial transformation in NW Europe – 3C-Vacs	#pharma: Biopharma production Sterile (bio) pharmaceutical manufacturing		
#green: Circular economy Strategies for a Sustainable green Chemical Industry – Part 1: What role does bioeconomy play in the circular economy?	#hydrogen: PtX processes and applications Overarching PtX-Concepts – Models, economic analysis and cost optimization	#pharma: Supply chain and logistics Tracing, tracking, and packaging in biopharmaceutical production		
#green: Circular economy Strategies for a Sustainable green Chemical Industry – Part 2: End-of-life solutions for the circular economy	#hydrogen: PtX processes and applications Advancements in material optimization for various Power-to-X-processes	#pharma: Supply chain and logistics Cooling and freezing in biopharmaceutical production	#green: Climate-neutral production Innovative solutions for the decarbonisation of chemical process industry – A bioeconomy workshop	
	#hydrogen: PtX processes and applications Innovations in bio-based Power-to-X and renewable refinery processes	#pharma: Supply chain and logistics Integrity of connections and containers for biopharmaceutical production		

Bühne	Lab Innovation Stage	Siemens Digital Innovation Stage	GEA Process Innovation Stage	EY Green Innovation Stage	Siemens Hydrogen Innovation Stage	Zeta Pharma Innovation Stage	Events
Halle	12.0, B35	11.0, E43	9.0, F77	6.0, D20	6.0, D76	4.1, B61	9:00 Uhr AIRA-Roboter-Challenge Halle 11.1, Stand A5 (ganztägig) 10:00 Uhr The SEFA Theatre Halle 12.0, Stand E70 11:00 Uhr Automation im Dialog Halle 11.0, Stand A43 17:30 Uhr AICHEMA Happy Hour Agora & Freigelände 2
Thema 1	#lab: Sustainable facilities and operations	#digital: Process industry transformation	#process: Safety and security	#green: Climate-neutral production	#hydrogen: Transport and storage	#pharma: Supply chain and logistics	
Thema 2	#lab: Sustainable facilities and operations	#digital: Process industry transformation	#process: Electrified and flexible	#green: Climate-neutral production	#hydrogen: (Global) Ecosystem	#pharma: Supply chain and logistics	
Thema 1	#lab: Sustainable facilities and operations	#digital: Process industry transformation	#process: Mixing and separation	#green: Climate-neutral production	#hydrogen: (Global) Ecosystem	#pharma: On the road to pharma 5.0?	
Thema 2	#lab: Advanced bioanalytics and pharma	#digital: Modular production	#process: Process engineering	#green: Climate-neutral production	#hydrogen: PtX processes and applications	#pharma: Biopharma production	
Thema 1	#lab: Digitalised, miniaturised, automated	#digital: Modular production	#process: Sustainable production systems	#green: Sustainability in production	#hydrogen: Production and hyperscaling	#pharma: On the road to pharma 5.0?	9:00 Uhr, AIRA-Roboter-Challenge Halle 11.1, Stand A5 (ganztägig) 10:00 Uhr The SEFA Theatre Halle 12.0, Stand E70 11:00 Uhr Automation im Dialog Halle 11.0, Stand A43 16:00 Uhr, India Day Portalhaus, Ebene 1, Transparenz 1 17:15 Uhr Japanese Reception Halle 4, C, Alliance 17:30 Uhr AICHEMA Happy Hour, Agora & Freigelände 2 19:00 Uhr Frankfurter Abend im Römer (gesonderte Einladung)
Thema 2	#lab: Digitalised, miniaturised, automated	#digital: AI and data analytics	#process: Sustainable production systems	#green: Sustainability in production	#hydrogen: Production and hyperscaling	#pharma: On the road to pharma 5.0?	
Thema 1	#lab: Digitalised, miniaturised, automated	#digital: AI and data analytics	#process: Sustainable production systems	#green: Sustainability in production	#hydrogen: Production and hyperscaling	#pharma: On the road to pharma 5.0?	
Thema 2	#lab: Link with production and quality	#digital: AI and data analytics	#process: Smart engineering and operations	#green: Circular economy	#hydrogen: (Global) Ecosystem	#pharma: Biopharma production	
Thema 1	#lab: Digitalised, miniaturised, automated	#digital: Modular production	#process: Process engineering	#green: Circular economy	#hydrogen: (Global) Ecosystem	#pharma: On the road to pharma 5.0?	9:00 Uhr AIRA-Roboter-Challenge Halle 11.1, Stand A5 (ganztägig) 10:00 Uhr The SEFA Theatre Halle 12.0, Stand E70 11:00 Uhr Automation im Dialog Halle 11.0, Stand A43 11:00 Uhr/15:00 Uhr Schülerveranstaltungen, Portalhaus, Ebene 1, Transparenz 1 17:00 Uhr Verleihung des AICHEMA-Gründerpreises Halle 6.0, EY Green Innovation Stage 17:30 Uhr AICHEMA Happy Hour Agora & Freigelände 2
Thema 2	#lab: Digitalised, miniaturised, automated	#digital: Modular production	#process: Food processing and technology	#start-up: Start-up slam	#hydrogen: Transport and Storage	#pharma: Biopharma production	
Thema 1	#lab: Link with production and quality	#digital: Process industry transformation	#process: Sustainable production systems	#start-up: Start-up Award	#hydrogen: Production and hyperscaling	#pharma: ATMP equipment & processes	
Thema 2	#lab: Sustainable facilities and operations	#digital: Modular production	#process: Safety and security	#start-up: Start-up Award	#hydrogen: Transport and storage	#pharma: Sustainable production & packaging	
Thema 1	#lab: Digitalised, miniaturised, automated	#digital: Process industry transformation	#process: Electrified and flexible	#green: Climate-neutral production	#hydrogen: (Global) Ecosystem	#pharma: On the road to pharma 5.0?	9:00 Uhr AIRA-Roboter-Challenge Halle 11.1, Stand A5 (ganztägig) 10:00 Uhr The SEFA Theatre Halle 12.0, Stand E70 10:00 Uhr Career Day Foyer 5.1/6.1 11:00 Uhr Automation im Dialog Halle 11.0, Stand A43 13:30 Uhr DECHMAX-Preisverleihung Halle 6.0, EY Green Innovation Stage 18:00 Uhr AICHEMA-Party Forum (für Aussteller und Presse)
Thema 2	#lab: Digitalised, miniaturised, automated	#digital: Process industry transformation	#process: Smart engineering and operations	#green: Industrial biotech	#hydrogen: Production and hyperscaling	#pharma: Sustainable production & packaging	
Thema 1	#lab: Advanced bioanalytics and pharma	#digital: Process industry transformation	#process: Safety and security	#green: Industrial biotech	#hydrogen: Production and hyperscaling	#pharma: Biopharma production	
Thema 2	#lab: Link with production and quality	#digital: Process industry transformation	#process: Food processing and technology	#green: Industrial biotech	#hydrogen: Transport and storage	#pharma: Biopharma production	
Thema 1	#lab: Sustainable facilities and operations	#digital: Process industry transformation	#process: Food processing and technology	#green: Climate-neutral production	#hydrogen: Production and hyperscaling	#pharma: On the road to pharma 5.0?	9:00 Uhr AIRA-Roboter-Challenge Halle 11.1, Stand A5 (ganztägig) 11:00 Uhr Automation im Dialog Halle 11.0, Stand A43 11:00 Uhr Schülerveranstaltungen, Portalhaus, Ebene 1, Transparenz 1
Thema 2	#lab: Sustainable facilities and operations	#digital: Process industry transformation	#process: Process engineering	#green: Industrial water	#hydrogen: PtX processes and applications	#pharma: On the road to pharma 5.0?	