	- 1	Room	Frequenz 1	Frequenz 2	Granat	Korall	Karmesin	Symmetrie 2	Symmetrie 3	Encounter	Europa	Consens	Entente
	-	Hall	·	Portalhaus Via	11.0	11.0			8.1	5.0	4.0	4.C	4.C
Ţ		Topic	Portainaus via	Portainaus via	11.0	#hydrogen:		#process: Process	s #process: Process	#green:	4.0	#process: Process	s #green: Indus
	P. L	Session				Transport and storage Properties of		engineering Enhancing plant	engineering Smart multiphase	Circular economy Towards a circular		engineering Standardized	biotech Industrial
		Session title				Properties of materials for hydrogen applications		productivity by intelligent detail	Smart multiphase processes	Towards a circular economy of plastics I		method for equip- ment performance	
		1				cations		engineering				assessment in fouling-prone applications	and processir side streams
Jue 2		13:00 – 14:00 h			Hall	4.0, Room Europa	: #pharma: Highlig	nt Session "Next g	generation pharma	manufacturing –	Current advances in		erapy"
,10),	_	Topic	#lab: Imaging and		#digital: Process industry	#hydrogen: Transport and	#process: Materials	#process: Process engineering	#green: Circular	#green: Circular economy		#process: Process engineering	1.1
Monday, 10 June 2024	00 n		sensing		transformation	storage	and material processing		economy				
Mo		Session title	New measurement techniques of nanoparticles and		Interoperability of plants and processes	Safety for hydro- gen applications	Analytics and optimization in materials and materials and materials and materials and materials are second as a second sec	New advances in sensor technology	and Utilisation	plastics II		Heat integration in process industry through me-	n Industrial biotechnolog – Establishing and scaling-u
	1	1	online process control				terial processing		(CCU) in the chemical sector			chanical vapour recompression – WindaB	and scaling-u production
	1	17:00 h				Hall 4.0, Room E	uropa: ACHEMA Op	ening "New globa	al framework cond	itions: How is the	process industry po		,
	一	Topic		#digital:	#digital:	#digital:	#digital:	#process: Process	#process: VDI-		#hydrogen:	#green:	#hydrogen: Water-for-X
	gu	- colon		Al and data analytics Al-based sensing	Process industry transformation Emerging (digital)	Process industry transformation PIDMIC 3.0 –	Modular production Flow chemistry		Informations- plattform		Ecosystem	Sustainability in production Best practise	Water-for-X Water-for-X: K
4		Session title		AI-based sensing and control	technologies in	Process Industry Data Management	Flow chemistry and modular production	New developments for chemical	Informations- plattform für Inge- nieure in der Produktion (in	production – CCU strategies	Operation of hydrogen production plants		Water-for-X: K for sustainab PtX
2024		1 _				Integration Congress 3.0 I		processes	Produktion (in German only)	and plasma applications		sustainability reporting in the process industry	
Tuesday, 11 June 2024		13:00 – 14:00 h									Turning strategy int	nto reality"	
lay, 1		Topic	minituarised,	#digital: Al and data analytics	#digital: Process industry transformation	#digital: Process industry transformation	Materials and material		#digital: Modular production	#green: Climate- neutral production	#hydrogen: Production and hyperscaling	#process: Electrified and flexible	#process: Sustainable production
Luesd	000 I	Session		Al-based		PIDMIC 3.0 –	processing Surfaces and	New advances	Modularisation	Carbon	<i>"</i>		systems GeCats – Vari
		title	Future-oriented technologies – Automation, augmented reality	modelling and engineering	After 10+ years of digitalization in the chemical industry –	PIDMIC 3.0 – Process Industry Data Management Integration	corrosion	in process engineering	Modularisation in chemical, pharma and bio production		Optimizing electrolyzer operation	Electrifiying chemical processes	of catalysis research
	\Box	1	augmented reality and sustainability in the laboratory sector		industry – Achievements, challenges and outlook	Integration Congress 3.0 II	and material processing		production	industry			
4	_	Topic		#digital:	#digital:	#digital:	#process:	#process: Smart	#process: Process	#green: Climate-	#green:	#process:	#green:
	\Box	101	minituarised,	Al and data analytics	Process industry transformation	Process industry transformation	Materials	engineering and operations	engineering	#green: Climate- neutral production	#green: n New materials for sustainability	#process: Mixing and separation	#green: Industrial wa
		Session title	automated pro-	Al to foster the potential of	Digitalization and manufacturing ex-	Process Industry	Innovative applications of	PAT for energy efficiency	Flow Chemistry Symposium I	Reaching emission targets	Sustainable materials from	Membranes and membrane pro-	Challenges in industrial wat
124	Morr		cess control and optimization in laboratory and	process data		Data Management Integration Congress 3.0 III		allidens	Зушрова	 Industrial examples of GHG reduction I 	materials from lignocellulose de- rived feedstocks	cesses – Import- ant contribution to energy efficiency	management
12 June 2024	\Box	1	biotechnology			Congresse				reduction.		and environmen- tal protection I	
,12]u	\Box	13:00 – 14:00 h				Hall 4.0, Roor	m Europa: #digital:	Highlight Session	"Artificial intellig	ence and autonom	ous systems in pro	ocess industry"	
~		Topic	#digital: Al and data		#digital: Process industry	#digital: Process industry	#process: Safety and	#process: Smart	#process: Process engineering	#green: Climate-	#green: Industrial	#process: Mixing and	#process: Electrified an
Wednesdey	إإ	lan	analytics		transformation	transformation		engineering and operations				separation	flexible
*		Session title	Al-assisted opera- tion support		(Digital) Standards and trends in process	PIDMIC 3.0 – Process Industry Data Management		Harvesting PAT data	Flow Chemistry Symposium II	Reaching emission targets – Industrial examples of GHG	Novel biological production systems and products – Sus-	Membranes and membrane pro- cesses – Import- ant contribution to	GeCats – Electing catalysis
	A _P	1			industries	Integration Congress 3.0 IV	enabling highest safety levels			- Industrial examples of GHG reduction II	from biological	energy efficiency and environmen-	
											engineering	tal protection II	
Ì	$\overline{\Box}$	Topic	#lab: Imaging and		#digital: Process industry	#digital: Autonomous		#process: Plant design and	#process: Process engineering	s #process: Mixing and separation	#green: Climate- neutral production	#green: n Circular economy	#green: Clim
	pio	Session	sensing Sensing for circu-		transformation Advancing process	systems Autonomous sys-	security Insights for safety	maintenance Equipment design	n Flow Chemistry	Innovative mixing	Climate neutral	Circular economy	Greenhouse
		title	lar economy		excellence in PAT	tems in site and plant operations	Challenges to- day and tomorrow	Mixers, seals, valves and heat exchangers	Symposium III	and separation solutions	production – Carbon Capture	solutions for inor- ganic materials	 reduction in the basic material industry
		1			operano			exchange					(KlimPro Indu
Thursday, 13 June 2024	Н	13:00 -			Hell 4 O	#9	Think Soc	- Leas	- Tambaria	in arb	forestill	l'amir.	
y, 13	H	13:00 – 14:00 h Topic	#lab: Imaging and					#process: Plant design and	#process: Process		#green: Climate- neutral production		
ırsday	1-1		sensing		transformation		security	maintenance	engineering	Circular economy		production	
₹	Afternoon	Session title	Concepts and challenges for instrumental		Design and use of a Digital twin	Modular process automation	Latest develop- ments in using resources ade-	Digital tools for predictive maintenance and	Flow Chemistry Symposium IV	Extraction pro- cesses for metals recovery	Climate neutral production – Enabling CCU	Concepts and examples of carbon footprint assessment in the	GeCats – Fro catalysis to process
	After	1	odor monitoring systems				quately for safety – Performing effi- cient and effective	environmental targets			pathways	assessment in the process industry	
	\Box	1					safety studies and safety design						
4	_	Topic	#lab:		#digital:		flerrocoss:			- H-woon-		the readily	
024			Link with produc- tion and quality		Process industry transformation		#process: Safety and security			#green: Circular economy		#green: Circular economy	
Friday, 14 June 2024		Session title	From research to production with intelligent exper-		Advanced process optimization and control		Best practice, classifications and models to			Sourcing and recycling of battery raw materials and		Critical raw materials from alternative sourc-	
, 14 Ju	Mc	1	intelligent exper- iment design and automation		control		and models to increase process safety			raw materials and acids		alternative sourc- es for industrial application – By	
	4 1	1										EU funded projéct Sea4Value	



Alliance	Concorde	Facette	Kontrast	Max-Buchner- Auditorium	Stage	Lab Innovation Stage	Siemens Digital Innovation Stage	GEA Process Innovation Stage	EY Green Innovation Stage	Siemens Hydrogen Innovation Stage	Zeta Pharma Innovation Stage	Side Events
4.C	4.C	3.Via	3.Via	DECHEMA-Haus	Hall	12.0, B35	11.0, E43	9.0, F77	6.0, D20	6.0, D76	4.1, B61	9:00 h AIRA Robotics Challenge
#hydrogen: Production and hyperscaling Analysis and controlling for	#hydrogen: PtX processes and applications Chances and challenges of	and processes Manufacturing advanced (bio)			Topic 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	Hall 11.1, Stand A5 (all day) 10:00 h The SEFA Theatre
hydrogen technol- ogies	Power-to-X in Argentina, Morocco and South Africa	pharmaceuticals I			Topic 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	Hall 12.0, Stand E70 11:00 h Automation in Dialogue Hall 11.0,
#hydrogen: Production and hyperscaling	#hydrogen: PtX processes and applications	#pharma: ATMP equipment and processes			Topic 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?	Stand A43 17:30 h ACHEMA Happy Hour Agora & Freigelände
Alternative feedstocks and hydrogen carriers	Kopernikus P2X – Exploration, validation and implementation of Power-to-X concepts	Manufacturing advanced (bio) pharmaceuticals II			Topic 2	#lab: Advanced bioanalytics and pharma	#digital: Modular production	#process: Process engineering	#green: Climate-neutral production	#hydrogen: PtX processes and applications	#pharma: Biopharma production	
	concepts											
#process:	#hydrogen: Transport and storage	#pharma: Biopharma production	#green: Climate- neutral production	#process: Safety and security	Topic 1	#lab: Digitalised, minituarised, 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 h, AIRA Robotics Challenge Hall 11.1,
International Powder and Nanotechnology Forum 2024	Hydrogen flagship project TransHyDE – Implementing hydrogen	PAT in (bio) pharmaceutical production	Electrochemical Synthesis of Biogenic Platform Chemicals – ElectroSyn	ISSA Symposium – Hazardous substances in maintenance works: risks and prevention I	Topic 2	#lab: Digitalised, minituarised, automated	#digital: Al and data analytics	#process: Sustainable production systems	#green: Sustainability in production	#hydrogen: Production and hyperscaling	#pharma: On the road to pharma 5.0?	Stand A5 (all day) 10:00 h The SEFA Theatre Hall 12.0, Stand E70 11:00 h Automation in Dialo Hall 11.0,
#process:	#hydrogen: Transport and storage	#green: Industrial water	economy	#process: Safety and security	Topic 1	#lab: Digitalised, minituarised, 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?	Stand A43 16:00 h, India Day Portalhaus, Ebene : Transparenz 1 17:15 h Japanese Reception Hall 4.C, Alliance
International Powder and Nanotechnology Forum 2024	Hydrogen flagship project TransHyDE – Aspects of using hydrogen	Water management in the pharmaceutical industry	Monomer Recycling of PET and polyester textiles	ISSA Symposium - Hazardous substances in maintenance works: risks and prevention II	Topic 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	17:30 h ACHEMA Happy Ho Agora & Freigeländ 19:00 h Frankfurt Evening i the Römer (special invitation)
#pharma:	#hydrogen: Production and hyperscaling	#pharma: Biopharma production		#process: Safety and security	Topic 1	#lab: Digitalised, minituarised, automated	#digital: Modular production	#process: Process engineering	#green: Circular economy	#hydrogen: (Global) Ecosystem	#pharma: On the road to pharma 5.0?	9:00 h AIRA Robotics Challenge Hall 11.1, Stand A5 (all day)
International Powder and Nanotechnology Forum 2024	H2Mare – De- central offshore hydrogen and its derivatives	Single-use technologies for biopharmaceutical production		ISSA Symposium - Hazardous substances in maintenance works: risks and prevention III	Topic 2	#lab: Digitalised, minituarised, automated	#digital: Modular production	#process: Food processing and technology	#start-up: Start-up slam	#hydrogen: Transport and Storage	#pharma: Biopharma production	10:00 h The SEFA Theatre Hall 12.0, Stand E70 11:00 h Automation in Dialogue
#pharma:	#green: Climate- neutral production	#pharma: Biopharma production			Topic 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	Hall 11.0, Stand A43 11:00 h/15:00 h Events for pupils, Portalhaus, Ebene Transparenz 1 17:00 h Ceremony ACHEMA
International Powder and Nanotechnology Forum 2024	Engaging industri- al transformation in NW Europe – 3C-Vacs	Sterile (bio) pharmaceutical manufacturing			Topic 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	Start-up Award Hall 6.0, EY Green Innovatio Stage 17:30 h ACHEMA Happy Hour Agora & Freigeländ
	#hydrogen: PtX processes and applications Overarching PtX-Concepts –	#pharma: Supply chain and logistics Tracing, tracking, and packaging in			Topic 1	#lab: Digitalised, minituarised, 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 h AIRA Robotics Challenge Hall 11.1, Stand A5 (all day)
Chemical Industry - Part 1: What role	Models, economic	biopharmaceutical production			Topic 2	#lab: Digitalised, minituarised, automated	#digital: Process industry transformation	#process: Smart engineering and operations	#green: Industrial biotech	#hydrogen: Production and hyperscaling	#pharma: Sustainable production & packaging	10:00 h The SEFA Theatre Hall 12.0, Stand E70 10:00 h Career Day
Strategies for a	#hydrogen: PtX processes and applications Advancements in	and logistics Cooling and	#green: Climate- neutral production Innovative		Topic 1	#lab: Advanced bioanalytics and pharma	#digital: Process industry transformation	#process: Safety and security	#green: Industrial biotech	#hydrogen: Production and hyperscaling	#pharma: Biopharma production	Foyer 5.1/6.1 11:00 h Automation in Dialogue Hall 11.0, Stand A43
Sustainable green	material optimi- zation for various Power-to-X-pro- cesses	freezing in bio- pharmaceutical production	solutions for the defossilisation of chemical process industry – A bioeconomy workshop		Topic 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	18:00 h ACHEMA Party Forum (for exhibito and press)
	#hydrogen: PtX processes and applications Innovations in bio- based Power-to-X	and logistics			Topic 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 h AIRA Robotics Challenge Hall 11.1, Stand A5 (all day) 11:00 h
	and renewable	containers for biopharmaceutical production			Topic 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?	Automation in Dialogue Hall 11.0, Stand A43 11:00 h Event for pupils, Portalhaus, Ebene