

PROGRAMME AT A GLANCE

Monday, 12 September 2022		
18:00 - 18:30	Brüssel	WELCOME / AWARDS • DECHEMA Awards • Student Awards
18:30 - 19:15		EVENING LECTURE The Anthropocene – the era of humankind. About progress and crises, technology and sustainable development Prof. Dr. Armin Grunwald, Institute for Technology Assessment and Systems Analysis (ITAS), Karlsruhe/D
19:15 - 21:00	Get-together at Eurogress Aachen	

Tuesday, 13 September 2022					
09:00 - 09:30	Brüssel	OPENING / HONOURS / AWARDS VDI Medal of Honor ProcessNet-Medaillen			
09:30 - 10:15		DECHEMA Awards lecture Sustainable biomanufacturing in plants – a brief story of process and product development Prof. Dr. Johannes Buyel, Fraunhofer Institute for Molecular Biology and Applied Ecology IME, Aachen/D			
10:15 - 11:00		PLENARY LECTURE Green methanol, part of Uhde's green technologies Dr. Alexander Schulz, thyssenkrupp Industrial Solutions AG, Bad Soden/D			
11:00 - 11:30	Coffee Break				
	Berlin 1	Berlin 2	Berlin 3	Brüssel	Konferenzraum 1
11:30 - 11:55	Biotechnology Bioprocess monitoring I	Biotechnology Integrated bioprocessing	(Bio)pharmaceutical processing Process scalability	Circular (Bio)Economy Circular (Bio)Economy I	Plant and process concepts Novel process concepts
12:00 - 12:25					
12:30 - 12:55					
13:00 - 14:15	Lunch Break (1 st floor)				
14:15 - 15:00	Brüssel	CIT-LECTURE Life and production on surfaces Prof. Dr. Roland Ulber, TU Kaiserslautern/D			
15:05 - 15:30	Biotechnology Bioprocess monitoring II	Biotechnology Surfaces: biofilms and microparticles	(Bio)pharmaceutical processing Digital Twins	Circular (Bio)Economy Materials cycles and recycling I	Plant and process concepts Processes for Power-to-X
15:35 - 16:00					
16:05 - 16:30					
16:30 - 17:00	Coffee Break				
17:00 - 18:00	Biotechnology Poster Pitches P 2.01 - P 2.28	Biotechnology Poster Pitches P 2.29 - P 2.52	Circular (Bio)Economy / (Bio) pharmaceutical processing Poster Pitches P 3.01 - 3.06 / P 4.01 - 4.19	Fluid and solids process engineering Poster Pitches P 7.01 - P 7.32	Plant and process concepts / Digital transformation Poster Pitches P 1.01 - P 1.18 / P 5.01 - P 5.08
18:00 - 20:00	POSTER PARTY				

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09:00 - 09:30					
09:30 - 10:15					
10:15 - 11:00					
11:00 - 11:30	Coffee Break				
	Konferenzraum 2	Konferenzraum 4/5	Konferenzraum 7/8/9	Konferenzraum 6	Konferenzraum 3
11:30 - 11:55	Digital transformation AI methods and applications I	Fluids and solids process engineering Fluid dynamics in disperse systems	Fluids and solids process engineering Crystallization	Youth Programme organized by kJVI	Energy transition Energy transition I
12:00 - 12:25					
12:30 - 12:55					
13:00 - 14:15	Lunch Break (1 st floor)				
14:15 - 15:00					
15:05 - 15:30	Digital transformation AI methods and applications II	Fluids and solids process engineering Multiphase fluid flow	Fluids and solids process engineering Phase equilibria	Youth Programme organized by kJVI	Energy transition Energy transition II
15:35 - 16:00					
16:05 - 16:30					
16:30 - 17:00	Coffee Break				
17:00 - 18:00		Energy transition / Industrial water and wastewater technology / New materials for process engineering Poster Pitches P 6.01 - P 6.11 / P 8.01 - 8.07 / P 9.01 - P 9.03			
18:00 - 20:00	POSTER PARTY				

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Wednesday, 14 September 2022						
09:00 - 09:45	Brüssel	PLENARY LECTURE Digital Transformation of Chemical Engineering Science Prof. Dr.-Ing. Hans Hasse, TU Kaiserslautern/D				
	Berlin 1	Berlin 2	Berlin 3	Brüssel	Konferenzraum 1	
09:50 - 10:15	Biotechnology Analysing heterogeneity	Biotechnology Co-cultivation	(Bio)pharmaceutical processing Hybrid modelling	Plant and process concepts Arnold Eucken Prize Lecture	Circular (Bio)Economy Materials cycles and recycling II	09:50 - 10:15
10:20 - 10:45						10:20 - 10:45
10:50 - 11:20	Coffee Break					10:50 - 11:20
11:20 - 11:45	Biotechnology Monitoring and prediction	Biotechnology Optimised production	(Bio)pharmaceutical processing Chromatography optimization	Plant and process concepts Process modelling and simulation	Circular (Bio)Economy High temperature technology for the Green Deal goals I	
11:50 - 12:15						11:50 - 12:15
12:20 - 12:45						12:20 - 12:45
12:45 - 14:15	Lunch Break					12:45 - 14:15
12:45 - 14:15	Europa	ChemCar Competition				
14:15 - 14:40	ESBES Award Session	Youth Programme organized by kjVI	New materials for processes Advanced catalyst materials	Plant and process concepts Modular plant concepts	Circular (Bio)Economy High temperature technology for the Green Deal goals II	14:15 - 14:40
14:45 - 15:10						14:45 - 15:10
15:15 - 15:40						15:15 - 15:40
15:40 - 16:15	Coffee Break					15:40 - 16:15
16:15 - 16:40	Biotechnology Process intensification: aeration	Biotechnology Downstream processing I	New materials for processes New materials for processes II	Plant and process concepts Reactor and reaction engineering	Circular (Bio)Economy High temperature technology for the Green Deal goals III	16:15 - 16:40
16:45 - 17:10						16:45 - 17:10
17:15 - 17:40						17:15 - 17:40
17:45 - 18:45	Networking @DECHEMA booth					17:45 - 18:45
20:00 - 23:00	Europa	MEET AND EAT Award Ceremony ChemCar Competition				20:00 - 23:00

Wednesday, 14 September 2022						
09:00 - 09:45						09:00 - 09:45
	Konferenzraum 2	Konferenzraum 4/5	Konferenzraum 7/8/9	Konferenzraum 6	Konferenzraum 3	
09:50 - 10:15	Digital transformation Enabling technologies and strategies for industry 4.0 I	Fluids and solids process engineering Adsorption I	Industrial water and wastewater Industrial wastewater management	Youth Programme organized by kjVI	Energy transition Energy transition III	09:50 - 10:15
10:20 - 10:45						10:20 - 10:45
10:50 - 11:20	Coffee Break					10:50 - 11:20
11:20 - 11:45	Digital transformation From simple models to digital twins I	Fluids and solids process engineering Adsorption II	Industrial water and wastewater Water management for Power-to-X	Youth Programme organized by kjVI	Energy transition Energy transition IV	11:20 - 11:45
11:50 - 12:15						11:50 - 12:15
12:20 - 12:45						12:20 - 12:45
12:45 - 14:15	Lunch Break					12:45 - 14:15
12:45 - 14:15						12:45 - 14:15
14:15 - 14:40	Digital transformation From simple models to digital twins II	Fluids and solids process engineering Adsorption and absorption	Industrial water and wastewater Sustainable wastewater treatment	Youth Programme organized by kjVI	Energy transition Energy transition V	14:15 - 14:40
14:45 - 15:10						14:45 - 15:10
15:15 - 15:40						15:15 - 15:40
15:40 - 16:15	Coffee Break					15:40 - 16:15
16:15 - 16:40	Digital transformation Enabling technologies and strategies for industry 4.0 II	Fluids and solids process engineering Liquid-liquid phase separation		Youth Programme organized by kjVI		16:15 - 16:40
16:45 - 17:10						16:45 - 17:10
17:15 - 17:40						17:15 - 17:40
17:45 - 18:45	Networking @DECHEMA booth					17:45 - 18:45
20:00 - 23:00						20:00 - 23:00

Thursday, 15 September 2022						
09:00 - 09:45	Brüssel	PLENARY LECTURE Towards Carbon-neutral Plastic Bioupcycling Prof. Sierin Lim, Nanyang University of Technology, Singapore/SGP				
09:45 - 09:55		<ul style="list-style-type: none"> • ESBES Award Ceremony • Poster Awards 				
	Berlin 1	Berlin 2	Berlin 3	Brüssel	Konferenzraum 1	
10:00 - 10:25	Biotechnology Synthetic and systems biology	Biotechnology Separation	(Bio)pharmaceutical processing Production and recovery	Circular (Bio)Economy Bioeconomy I	Plant and process concepts Smart engineering and operations	10:00 - 10:25
10:30 - 10:55						10:30 - 10:55
10:55 - 11:30	Coffee Break					10:55 - 11:30
11:30 - 11:55	Biotechnology Advanced production systems	Biotechnology Downstream processing II	(Bio)pharmaceutical processing Advanced technologies	Circular (Bio)Economy Bioeconomy II	Plant and process concepts Measurement and control	11:30 - 11:55
12:00 - 12:25						12:00 - 12:25
12:30 - 12:55						12:30 - 12:55
12:55 - 14:00	Lunch Break					12:55 - 14:00
12:55 - 14:00	Brüssel	ChemPLANT Competition				
14:00 - 14:25	Biotechnology Electrobiotechnology	Biotechnology Cultivation of microalgae and cyanobacteria		Circular (Bio)Economy Bioeconomy III	Plant and process concepts Electrification of chemical processes	14:00 - 14:25
14:30 - 14:55						14:30 - 14:55
15:00 - 15:25						15:00 - 15:25
15:30 - 15:55						15:30 - 15:55
16:00	End of Conference					16:00

Thursday, 15 September 2022						
09:00 - 09:45						09:00 - 09:45
09:45 - 09:55						09:45 - 09:55
	Konferenzraum 2	Konferenzraum 4/5	Konferenzraum 7/8/9	Konferenzraum 6	Konferenzraum 3	
10:00 - 10:25		Fluids and solids process engineering Reactor geometry optimization I	Fluids and solids process engineering Technical challenges	Youth Programme organized by kjVI	Education 4.0 Virtual reality and hybrid learning	10:00 - 10:25
10:30 - 10:55						10:30 - 10:55
10:55 - 11:30	Coffee Break					10:55 - 11:30
11:30 - 11:55	Circular (Bio)Economy Biorefineries	Fluids and solids process engineering Reactor geometry optimization II	Fluids and solids process engineering Modelling	Youth Programme organized by kjVI	Education 4.0 New ways of education and collaboration	11:30 - 11:55
12:00 - 12:25						12:00 - 12:25
12:30 - 12:55						12:30 - 12:55
12:55 - 14:00	Lunch Break					12:55 - 14:00
12:55 - 14:00						12:55 - 14:00
14:00 - 14:25	Circular (Bio)Economy Unconventional conversion technologies in circular economy		Youth Programme organized by kjVI	Youth Programme organized by kjVI	Education 4.0 Devices for training and learning	14:00 - 14:25
14:30 - 14:55						14:30 - 14:55
15:00 - 15:25						15:00 - 15:25
15:30 - 15:55						15:30 - 15:55
16:00	End of Conference					16:00