PROGRAMME

16 – 17 November 2026
GenoHotel · Karlsruhe · Germany

Annual Meeting of Process Engineering and Materials Technology

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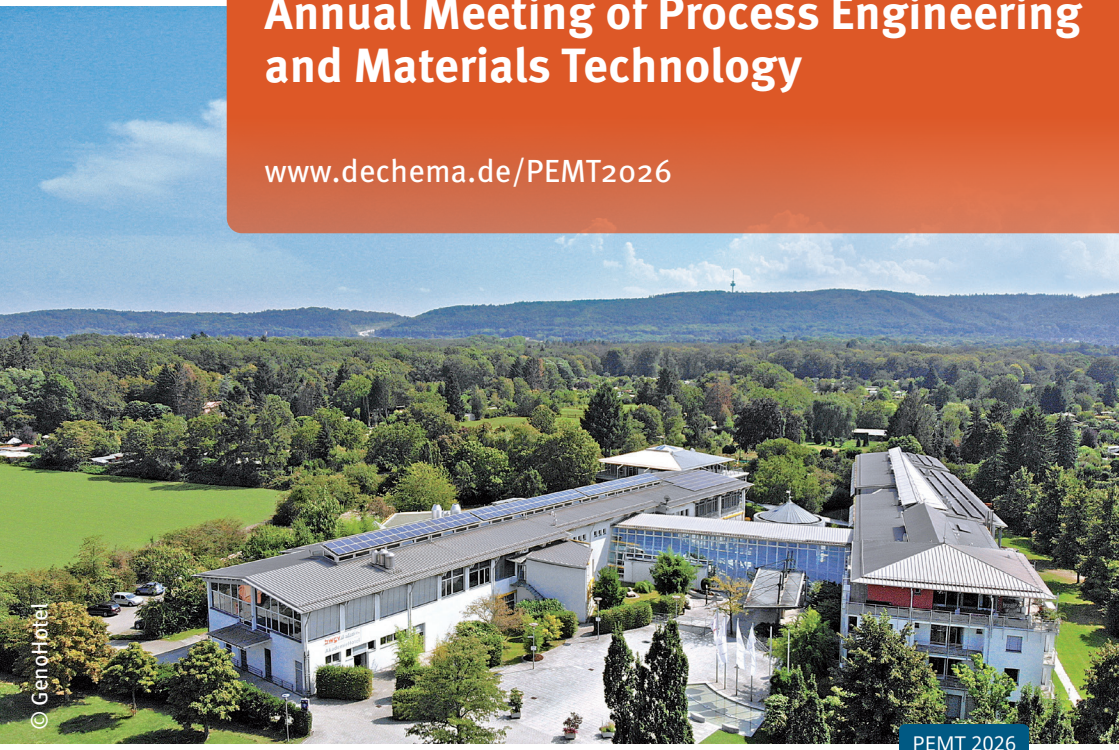

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PEMT 2026

PROGRAMME OVERVIEW

Monday, 16 November 2026

	Main Lecture Hall (TR 4-5)	
09:00	**Welcome & Opening** Andreas Bamberg, Norbert Kockmann, Markus Finke	
	PLENARY LECTURES *Chair: Andreas Bamberg*	
09:10	Achmad Anggawirya Alimin/NL	
09:40	Luise Kaven	
10:10	**Poster- and Exhibitors Short Introduction - Part 1**	
10:30	Coffee Break & Posters	
	Main Lecture Hall (TR 4-5)	Parallel Room (TR 21, 1. Floor)
	PAT / ADVANCEMENTS *Chair: Lutz Mayer*	**PAS** *Chair: Margit Hahn*
11:00	David Mogalle	Anthea Müller
11:20	Michael Große	Matthias Rizzi
11:40	Stefan J. Lindhuber	Jörn Viell
12:00	Lennard Schulte	Simon Becker
12:20	Lunch Break & Posters	
	TRANSFORMATION *Chair: Julia Riese*	**TRENDS / THERMODYNAMICS** *Chair: Michael Bortz*
13:20	Gustavo Barreto	Jochen Steimel
13:40	Timm Ruther	Amy Koch
14:00	Marian Panofen	Sebastian Schmitt
14:20	Steffen Fahr	Markus Seifert
14:40	Coffee Break & Posters	
	SEAMLESS ENGINEERING / TRENDS *Chair: Sönke Bröcker*	**TRENDS / H2O DME / VARIOUS TOPICS** *Chair: Andreas Peschel*
15:10	Luis Garcia Lorea	Michael Rix
15:30	Liane Andrea Haufe	Turi da Fonte Dias
15:50	Michael Bortz	Karen Valverde Pontes
16:10	Break for Room Change	
	Main Lecture Hall (TR 4-5)	
	PLENARY LECTURE *Chair: Norbert Kockmann*	
16:20	Pascal Schäfer	
16:50	**Poster Short Introduction - Part 2**	
17:15	End of Lectures Day One / Hotel Check-in	
17:20	**PEMT Board Meeting**	
18:30	Dinner in the Restaurant	
19:30	**Poster & Exhibitors Party** (until 21:00)	
21:00	Bowling & Bar open (at cost price) - (until 22:30)	

PROGRAMME OVERVIEW

Tuesday, 17 November 2026

	Main Lecture Hall (TR 4-5)	
08:30	**Summary of the 1st Day** Andreas Bamberg, Norbert Kockmann, Markus Finke	
	PLENARY LECTURE *Chair: Norbert Kockmann*	
08:40	Artur M. Schweidtmann/NL	
09:10	**PANEL DISCUSSION** Is the process industry AI-ready? *Chair: Andreas Bamberg*	
10:15	Coffee Break & Posters	
	Main Lecture Hall (TR 4-5)	Parallel Room (TR 21, 1. Floor)
	ADVANCEMENTS *Chair: Leon Urbas*	**TRENDS** *Chair: Michael Wiedau*
10:45	Rebecca Lewerenz	Matthias Schiedeck
11:05	Rene Görgen	Simon Brinkmann
11:25	Arnim Brueger	Bogdan Dorneanu
11:45	Short Break	
	TRENDS *Chair: Mirko Skiborowski*	**TRENDS / MULTIPHASE** *Chair: Bernhard Seyfang*
11:55	Edwin Hirtreiter	Laura Stops
12:15	Marvin Drotleff	Marie Pfafferott
12:35	Ivan Chóez-Guaranda	Vasileios Mappas
12:55	Lunch Break	
	TRANSFORMATION / MODA *Chair: Frank Stenger*	**PAS** *Chair: Katharina Löwe*
13:40	Mathias Schmitz	Stefan Tönnis
14:00	Monaf Gawish	Mondie Kimandi Mutegi
14:20	Break for Room Change	
	Main Lecture Hall (TR 4-5)	
	PLENARY LECTURES *Chairs: Norbert Kockmann, Andreas Bamberg*	
14:30	Julia Riese	
15:00	Peter F. Pelz	
15:30	**Closing / Poster Award Ceremony**	
15:45	End of the Conference	
16:00 - 18:00	**Meetings of Topical Sections**	

PROGRAMME

Monday, 16 November 2026

	Main Lecture Hall (TR 4-5 Ground Floor)
09:00	**Welcome & Opening** *Chairs: A. Bamberg[1]; N. Kockmann[2]; M. Finke[3]* *[1] Merck Electronics KGaA, Darmstadt/DE; [2]TU Dortmund/DE; [3]Bayer Aktiengesellschaft, Frankfurt am Main/DE*
	PLENARY LECTURES Chair: A. Bamberg[1], [1]Merck Electronics KGaA, Darmstadt/DE
09:10	**HAZOP Co-Pilot: Integrating DEXPI P&ID, AI, and HAZOP** A. Anggawirya Alimin[1]; A. Schweidtmann[1] *[1] Delft University of Technology, Delft/NL*
09:40	**AI Agents as Digital Assistants in Process Analytical Technology** L. Kaven[1]; J. Rittig[1] *[1] RWTH Aachen University, Aachen/DE*
10:10	**Poster & Exhibitors Short Introduction - Part 1**
10:30	Coffee Break and Posters
	Main Lecture Hall (TR 4-5 Ground Floor)
	PROCESS ANALYTICAL TECHNOLOGY (PAT) / ADVANCEMENTS IN PLANT ENGINEERING *Chair: L. Mayer[1], [1]Hellma GmbH & Co. KG, Müllheim/DE*
11:00	**Agentic AI for Model-Based Process Design Based on Pareto Solutions** D. Mogalle[1]; P. Schwartz[1]; K. Teichert[1]; N. Asprion[2]; P. Schäfer[2]; M. Bortz[1] [1] Fraunhofer-Institut für Techno- und Wirtschaftsmathematik ITWM, Kaiserslautern/DE; [2] BASF SE, Ludwigshafen/DE
11:20	**Energy Intelligence for Modular Plants: A Digital Twin Approach from Design to Execution** M. Große[1]; A. Koch[1]; I. Viedt[1]; L. Urbas[1] [1] Dresden University of Technology, Dresden/DE
11:40	**Gravimetric Investigation of CO_2/H_2O Adsorption on Functionalized Carbonates Using a Custom-Built Magnetic Suspension Balance** S. Lindhuber[1]; H. Klein[2]; J. Völkl[1] [1] Rosenheim Technical University of Applied Sciences, Rosenheim/DE; [2] Technical University of Munich, Munich/DE
12:00	**Bayesian Optimization of Indirect Hard Models in Spectroscopy** L. Schulte[1]; L. Kaven[1]; J. Viell[1]; A. Mitsos[1] [1] RWTH Aachen - AVT - Systemverfahrenstechnik, Aachen/DE
12:20	Lunch & Posters

PROGRAMME

Monday, 16 November 2026

	Main Lecture Hall (TR 4-5 Ground Floor)
09:00	**Welcome & Opening** *Chairs: A. Bamberg[1]; N. Kockmann[2]; M. Finke[3]* *[1] Merck Electronics KGaA, Darmstadt/DE; [2]TU Dortmund/DE; [3]Bayer Aktiengesellschaft, Frankfurt am Main/DE*
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09:40	**AI Agents as Digital Assistants in Process Analytical Technology** L. Kaven[1]; J. Rittig[1] *[1] RWTH Aachen University, Aachen/DE*
10:10	**Poster & Exhibitors Short Introduction - Part 1**
10:30	Coffee Break and Posters
	Parallel Lecture Hall (TR 21 - 1. Floor)
	PROCESS AND PLANT SAFETY *Chair: M. Hahn, Reken/DE*
11:00	**Towards a Machine Learning Framework for Semi-Automated HAZOP Studies in Dynamically Operated Hydrogen Pipelines** A. Müller[1]; M. Hirschvogel[1]; M. Gutierrez Sanchez[1]; E. Esche[1] [1] BAM - Bundesanstalt für Materialforschung und -prüfung, Berlin/DE
11:20	**Design by HAZOP - an AI enabled paradigm shift in process safety** M. Rizzi[1] [1] rhysafe ag, Basel/CH
11:40	**Dynamic Modeling for Explosion Risk Assessment in Sulfur Storage** C. Papadimitriou[1]; J. Viell[1]; A. Mitsos[1] [1] RWTH Aachen University, Aachen/DE
12:00	**Revolutionize the maintenance of your safety valves: Stop the dismantling, slash the costs** S. Becker[1] [1] Fike Deutschland / Zweigniederlassung der Fike Europe BV, Weinheim/DE
12:20	Lunch & Posters

PROGRAMME

Monday, 16 November 2026

	Main Lecture Hall (TR 4-5 Ground Floor)
	TRANSFORMATION IN ENERGY SUPPLY AND RAW MATERIALS *Chair: J. Riese[1], [1]Universität Paderborn, Paderborn/DE*
13:20	**Dissociating methane with plasma-vortex for Carbon Black and turquoise hydrogen** G. Barreto[1]; C. Nascimento[1]; J. Moreira[1] [1] Universidade de São Paulo, Sao Paulo/BR
13:40	**Analysis of DME Steam Reforming Pathways for Hydrogen Release** T. Ruther[1]; H. Stadler[1]; A. Peschel[2] [1] Forschungszentrum Jülich GmbH, Jülich/DE; [2] Forschungszentrum Juelich GmbH/ RWTH Aachen University, Jülich/Aachen/DE
14:00	**Integrated product, process, and energy system design for sustainable drop-in fuel production** M. Panofen[1]; C. Maravelias[2]; A. Mitsos[1] [1] RWTH Aachen University, Aachen/DE; [2] Princeton University, Princeton, NJ/US
14:20	**Flexible without Fatigue – Green Ammonia Plants under Dynamic Operation** S. Fahr[1]; R. Kender[2]; J. Bohn[2]; A. Peschel[3]; S. Rehfeldt[1]; H. Klein[1] [1] Technische Universität München, Garching/DE; [2] Linde GmbH - Linde Engineering, Pullach/DE; [3] Forschungszentrum Jülich GmbH & RWTH Aachen University, Jülich/DE
14:40	Coffee Break & Posters
	SEAMLESS ENGINEERING / TRENDS IN PROCESS DEVELOPMENT AND PROCESS SIMULATION *Chair: S. Bröcker[1], [1]Evonik Operations GmbH, Hanau/DE*
15:10	**Rethinking Project Controls: What AI Actually Delivers in Schedule Analysis and Cost Estimating, Evidence from a Real Capital Project** L. Garcia Loera[1] [1] CEP PMP MBA, PCC SE, Köln/DE
15:30	**Challenges and recommendations for fixed bed reactor systems for the catalyzed conversion of alcohols** L. Haufe[1]; M. Seifert[1]; S. Geiger[1]; J. Weigand[1] [1] TU Dresden, Dresden/DE
15:50	**From Mixture Topology to Converged Rigorous Flowsheet Simulations: Automated Synthesis of Multinary Distillation Processes** T. Seidel[1]; J. Höller[1]; L. Ristau[1]; P. Schwartz[1]; D. Heim[1]; M. Skiborowski[2]; P. Schäfer[3]; S. Blagov[3]; M. Wlotzka[3]; N. Asprion[3]; M. Bortz[1] [1] Fraunhofer ITWM, Kaiserslautern/DE; [2] TU Hamburg, Kaiserslautern/DE; [3] BASF SE, Ludwigshafen/DE
16:10	Break for Room Change

PROGRAMME

Monday, 16 November 2026

	Parallel Lecture Hall (TR 21 - 1. Floor)
	TRENDS IN PROCESS DEVELOPMENT AND PROCESS SIMULATION / THERMODYNAMICS *Chair: M. Bortz[1], [1]Fraunhofer ITWM, Kaiserslautern/DE*
13:20	**Towards Exchanging Thermodynamic Property Data with DEXPI** J. Steimel[1] [1] Private Researcher, Langenfeld/DE
13:40	**Digital Twin supported Process Transfer for Modular Process Plants using a gPROMS-Python-COMOS Semantic Framework** A. Koch[1]; I. Viedt[1]; M. Ott[2]; S. Härtner[3]; J. Marin Gallego[4]; A. Bamberg[3]; L. Urbas[1] [1] TU Dresden, Dresden/DE; [2] Hochschule Darmstadt, Darmstadt/DE; [3] Merck Electronics KGaA, Darmstadt/DE; [4] Siemens AG, München/DE
14:00	**State-of-the-Art Property Prediction in Julia: Making ML Models Accessible for Process Engineering** S. Schmitt[1]; H. Hasse[1]; F. Jirasek[1] [1] RPTU Kaiserslautern-Landau, Kaiserslautern/DE
14:20	**Limitations of thermodynamic parameter evaluation from PID control circuits** M. Seifert[1]; L. Haufe[1]; J. Dutschke[1]; S. Geiger[1] [1] TU Dresden, Dresden/DE
14:40	Coffee Break & Posters
	TRENDS IN PROCESS DEVELOPMENT AND PROCESS SIMULATION / H2O DM - VARIOUS TOPICS *Chair: A. Peschel[1], [1]Linde AG Linde Engineering Division, Pullach/DE*
15:10	**Model-based Comparison of Green Ammonia Production Pathways** M. Rix[1]; A. Mitsos[1] [1] RWTH Aachen University, AVT SVT, Aachen/DE
15:30	**Influence of process design on the efficiency of large-scale ammonia crackers** G. Turi da Fonte Dias[1]; M. Weiss[1]; A. Peschel[2] [1] Forschungszentrum Jülich (FZJ) GmbH, Jülich/DE; [2] Forschungszentrum Jülich (FZJ) GmbH & RWTH Aachen University, Jülich/Aachen/DE
15:50	**Process Intensification of Direct DME Production in Microchannel Reactors: A CFD-Based Analysis of Catalyst Distribution under Isothermal Conditions** F. de Alcântara Moura Vilela[1]; B. Dorneanu[1]; K. Valverde Pontes[2]; H. Arellano-Garcia[1] [1] Brandenburg University of Technology (BTU) Cottbus-Senftenberg, Cottbus/DE; [2] Universidade Federal da Bahia, UFBA, Salvador/BR
16:10	Break for Room Change

PROGRAMME

Monday, 16 November 2026

	Main Lecture Hall (TR 4-5 Ground Floor)
	PLENARY LECTURE Chair: N. Kockmann[1], [1]TU Dortmund/DE
16:20	**Towards vibe-simulating in Chemasim – How far are we from autonomous model-based process development agents?** P. Schäfer[1]; L. Krinke[1]; M. Wlotzka[1]; N. Asprion[1] *[1] BASF SE, Ludwigshafen/DE*
16:50	**Poster Short Introduction - Part 2**
17:15	End of Lectures / Hotel Check-in
17:20	PEMT Board Meeting
18:30	Dinner in the Restaurant
19:30	**Poster & Exhibitors Party**
21:00	**Bowling & Bar open (at cost price)**

Tuesday, 17 November 2026

	Main Lecture Hall (TR 4-5 Ground Floor)
	PLENARY LECTURE / PANEL DISCUSSION Chairs: A. Bamberg[1]; N. Kockmann[2]; M. Finke[3] [1]Merck Electronics KGaA, Darmstadt/DE; [2]TU Dortmund/DE; [3]Bayer Aktiengesellschaft, Frankfurt am Main/DE
08:30	**Summary of the 1st Day**
08:40	**Multi-agent system for separation process screening** S. Rupprecht[1]; Q. Gao[1]; A. Schweidtmann[1] *[1] Delft University of Technology, Delft/NL*
09:10	**PANEL DISCUSSION** Is the process industry AI-ready?
10:15	Coffee Break & Posters

POSTER VOTING

POSTER VOTING

Once again this year, we're awarding poster prizes for the top three posters!
Please do vote!
A link to the voting page will be available from Monday 16th November at 19:00 until Tuesday 17th November 2026 at 11:45.

PEMT 2026 Best Poster

PROGRAMME

Tuesday, 17 November 2026

Main Lecture Hall (TR 4-5 Ground Floor)

ADVANCEMENTS IN PLANT ENGINEERING AND OPERATION THROUGH DIGITALISATION
Chair: L. Urbas[1], [1]TU Dresden, Dresden/DE

10:45 **Integrated Engineering of Chemical Processes and Buildings**
R. Lewerenz[1]; F. Komander[2]; S. de Lima Vasconcelos[2]; M. Krämer[2]; W. Welscher[3]; J. Repke[1]; E. Esche[4]
[1] Technische Universität Berlin, Berlin/DE; [2] HTW Berlin, Berlin/DE; [3] X-Visual Technologies GmbH, Berlin/DE; [4] Bundesanstalt für Materialforschung und -prüfung (BAM), Berlin/DE

11:05 **Virtual Commissioning of Chemical Processes For Automation and Control Strategies Based on Digital Twins**
R. Görgen[1]; V. Klippel[1]; T. Svoboda[2]; V. Hirsch[3]; A. Mhamdi[1]
[1] RWTH Aachen University, Process Systems Engineering (AVT.SVT), Aachen/DE; [2] Siemens, s.r.o., Prague/CZ; [3] Siemens AG, Karlsruhe/DE

11:25 **Accelerated Chemical Reactor Simulation using Reduced-Order Modeling**
S. Sharma[1]; A. Brueger[1]; T. Franken[2]
[1] ESTECO Software GmbH, Nuremberg/DE; [2] BTU Cottbus-Senftenberg, Cottbus/DE

11:45 Short Break

TRENDS IN PROCESS DEVELOPMENT AND PROCESS SIMULATION
Chair: M. Skiborowski[1], [1]Hamburg Univeristy of Technology, Hamburg/DE

11:55 **Dynamic Modeling and Validation of a Biogas Steam Reforming Plant**
E. Hirtreiter[1]; L. Müller-Noell[2]; A. Gradel[2]; H. Schmid[3]; C. Wünning[4]; S. Rehfeldt[1]; H. Klein[1]
[1] Technical University of Munich, Garching/DE; [2] BtX energy GmbH, Bindlach/DE; [3] WS Reformer GmbH, Renningen/DE; [4] RWTH Aachen University, Aachen/DE

12:15 **Insights from data-driven Bayesian inference for parameter estimation of dynamic process models**
M. Drotleff[1]; A. Chuluunkhuu[1]; J. Repke[1]; C. Hoffmann[1]
[1] Technische Universität Berlin, Berlin/DE

12:35 **Dynamic Simulation and Parametric Sensitivity Analysis of Multi-Column Countercurrent Solvent Gradient Purification for Continuous Separation of Peptides**
I. Chóez-Guaranda[1]; B. Dorneanu[1]; H. Arellano-Garcia[1]
[1] Brandenburg University of Technology Cottbus-Senftenberg, Cottbus/DE

12:55 Lunch Break

PROGRAMME

Tuesday, 17 November 2026

Parallel Lecture Hall (TR 21 - 1. Floor)

TRENDS IN PROCESS DEVELOPMENT AND PROCESS SIMULATION
Chair: M. Wiedau[1], [1]Evonik Operations GmbH, Marl/DE

10:45 **Scenario-dependent trade-offs between efficiency and durability in PEM electrolysis: a prospective techno-economic and life cycle assessment**
M. Schiedeck[1]; M. Langer[1]; S. Deutz[1]; A. Peschel[2]
[1] Forschungszentrum Jülich (FZJ) GmbH, Jülich/DE; [2] Forschungszentrum Jülich (FZJ) GmbH & RWTH Aachen University, Jülich/Aachen/DE

11:05 **Data-Driven Pyrolysis Modeling for Improved Syngas Prediction in Biomass Gasification**
S. Brinkmann[1]; M. Karch[2]; T. Grützner[3]; B. Seyfang[1]
[1] Bingen Technical University of Applied Sciences, Bingen/DE; [2] BHYO GmbH, Ludwigshafen/DE; [3] Ulm University, Institute of Chemical Engineering, Ulm/DE

11:25 **Adaptive Penalization for QUBO Reformulation in Process Optimization**
B. Dorneanu[1]; V. Mappas[1]; H. Arellano-Garcia[1]
[1] Brandenburg University of Technology Cottbus-Senftenberg, Cottbus/DE

11:45 Short Break

TRENDS / MULTIPHASE
Chair: B. Seyfang[1], [1]Technische Hochschule Bingen, Bingen/DE

11:55 **Simulation and Techno-Economic Evaluation of Part-Load Operation in Hydrogen Liquefaction Plants**
L. Stops[1]; B. Kanz[2]; S. Rehfeldt[1]; H. Klein[1]
[1] Technical University of Munich, Garching/DE; [2] TUMCREATE, Singapore/SG

12:15 **A single-level optimization framework for the integration of design and nonlinear model predictive control with an infinite horizon approximation**
M. Pfafferott[1]; L. Ricardez-Sandoval[2]; L. Biegler[3]; J. Repke[1]; C. Hoffmann[1]
[1] Technische Universität Berlin, Berlin/DE; [2] University of Waterloo, Waterloo/CA; [3] Carnegie Mellon University, Pittsburgh/US

12:35 **Machine learning-driven multiscale modelling approach for multiphase reactors**
V. Mappas[1]; B. Dorneanu[1]; H. Arellano-Garcia[1]
[1] Brandenburg University of Technology (BTU) Cottbus-Senftenberg, Cottbus/DE

12:55 Lunch Break

PROGRAMME

Tuesday, 17 November 2026

	Main Lecture Hall (TR 4-5 Ground Floor)
	TRANSFORMATION / MODULAR PLANTS *Chair: F. Stenger[1], [1]Evonik Operations GmbH, Hanau/DE*
13:40	**Automated MTP Generation and Semantic Enrichment of P&IDs using DEXPI** M. Schmitz[1]; S. Lamm[2]; W. Welscher[3]; P. Pelz[2]; N. Kockmann[1] [1] TU Dortmund University, Dortmund/DE; [2] TU Darmstadt, Darmstadt/DE; [3] X-Visual Technologies GmbH, Berlin/DE
14:00	**Electrification of Industrial Heat Supply via Optimal Heat Pump–Heat Exchanger Network Design** M. Gawish[1]; M. Adami[1]; M. Skiborowski[1] [1] Technische Universität Hamburg (TU Hamburg), Hamburg/DE
14:20	Break for Room Change
	Main Lecture Hall (TR 4-5 Ground Floor)
	PLENARY LECTURES Chair: N. Kockmann[1]; A. Bamberg[2] [1]TU Dortmund/DE; [2]Merck Electronics KGaA, Darmstadt/DE
14:30	**Tackling Challenges for the Integration of Heat Pumps in the Chemical Industry** T. Hochhaus[1]; J. Wloch[1]; M. Grünewald[1]; J. Riese[2] [1] Ruhr Univerity Bochum, Bochum/DE; [2] Universität Paderborn, Paderborn/DE
15:00	**From Concept to Approval: Modular Production in REUNION** P. Pelz[1]; N. Kockmann[2]; L. Urbas[3] [1] Institut für Fluidsystemtechnik (TU Darmstadt), Darmstadt/DE; [2] TU Dortmund/DE; [3] TU Dresden, Process-to-Order Group, Dresden/DE
15:30	**Closing / Poster Awards Ceremony**
15:45	End of the Conference
16:00 - 18:00	**Meetings of Topical Sections**

PROGRAMME

Tuesday, 17 November 2026

	Parallel Lecture Hall (TR 21 - 1. Floor)
	PROCESS AND PLANT SAFETY *Chair: K. Löwe[1], [1]Bundesanstalt für Materialforschung und -prüfung (BAM) / University of Wuppertal, Berlin/DE*
13:40	**Uncertainty Quantification for Implicit Hybrid Models using Variational Methods** S. Tönnis[1]; M. Gutierrez Sanchez[1]; E. Esche[1] [1] Bundesanstalt für Materialforschung und -prüfung (BAM), Berlin/DE
14:00	**The vessel-side vapor quality and physical reality: a dominant uncertainty in two-phase relief sizing** M. Mutegi[1] [1] rhysafe ag, Basel/CH
14:20	Break for Room Change
	Main Lecture Hall (TR 4-5 Ground Floor)
	PLENARY LECTURES Chair: N. Kockmann[1]; A. Bamberg[2] [1]TU Dortmund/DE; [2]Merck Electronics KGaA, Darmstadt/DE
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15:30	**Closing / Poster Awards Ceremony**
15:45	End of the Conference
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Programme subject to change. Article titles and authors as provided by the contributor.
No corrections made by DECHEMA as of 25 August 2026.

POSTER PROGRAMME

P 01	**Process Analytical Concepts in the Development of Chemical Hydrogen Carrier Technologies** C. Schultz[1]; S. Dreesen[1]; A. Peschel[1]; M. Fischer[1] [1] Forschungszentrum Jülich GmbH, Jülich/DE
P 02	**Graphene domains formed by plasma-induced surface reconstruction under oxygen-free conditions** E. Rozas[1]; C. Nascimento[1] [1] University of São Paulo, São Paulo/BR
P 03	**A Reproducible Multi-Step Method for Steady-State Retrofit Flexibility** K. Mühlböck[1]; J. Höltl[1]; A. Klüpfel[1]; B. Etzold[2]; J. Völkl[1] [1] Rosenheim Technical University of Applied Sciences, Burghausen/DE; [2] FAU Erlangen-Nuremberg, Fürth/DE
P 04	**How to get from CO2 to sustainable aviation fuels? A superstructure-based assessment framework** J. Lindfeld[1]; P. Hirunsit[2]; H. Park[3]; B. Peng[3]; L. Spiekermann[1]; L. Bosetti[1]; F. Kiefer[2]; E. Sargent[3]; A. Bardow[1] [1] ETH Zürich, Zürich/CH; [2] Empa - Swiss Federal Laboratories for Materials Science and Technology, Dübendorf/CH; [3] Northwestern University, Evanston/US
P 05	**Rational Single-Reactor Design of Thermochemical Hydrogen Storage via Iron Oxide Redox** R. Yentumi[1]; B. Dorneanu[1]; H. Arellano-Garcia[1] [1] Brandenburg University of Technology Cottbus-Senftenberg, Cottbus/DE
P 06	**AAS-Based Digital Twins for Process-to-Order Semiconductor Value Chains: Demonstrator Concepts from the IDTA Research Hub Semiconductor** L. Vogt[1]; J. Lorenz[1]; L. Urbas[1] [1] TUD Dresden University of Technology, Dresden/DE
P 07	**One Representation Doesn't Fit All: Uncertainty Aware Screening of CO2 Absorbing Ionic Liquids using Multi-Representation Ensembles and Conformal Prediction** Y. Chaudhary[1]; I. Lukec[2]; A. Fricke[2] [1] FAU Erlangen Nürnberg, Erlangen/DE; [2] CGC Capital Gain Consultants GmbH, Berlin/DE
P 08	
P 09	

POSTER PROGRAMME

P 10	
P 11	
P 12	
P 13	
P 14	
P 15	
P 16	
P 17	
P 18	
P 19	

EXHIBITOR AND CONTACT

EXHIBITOR

XVISUAL

ORGANISER AND CONTACT

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