

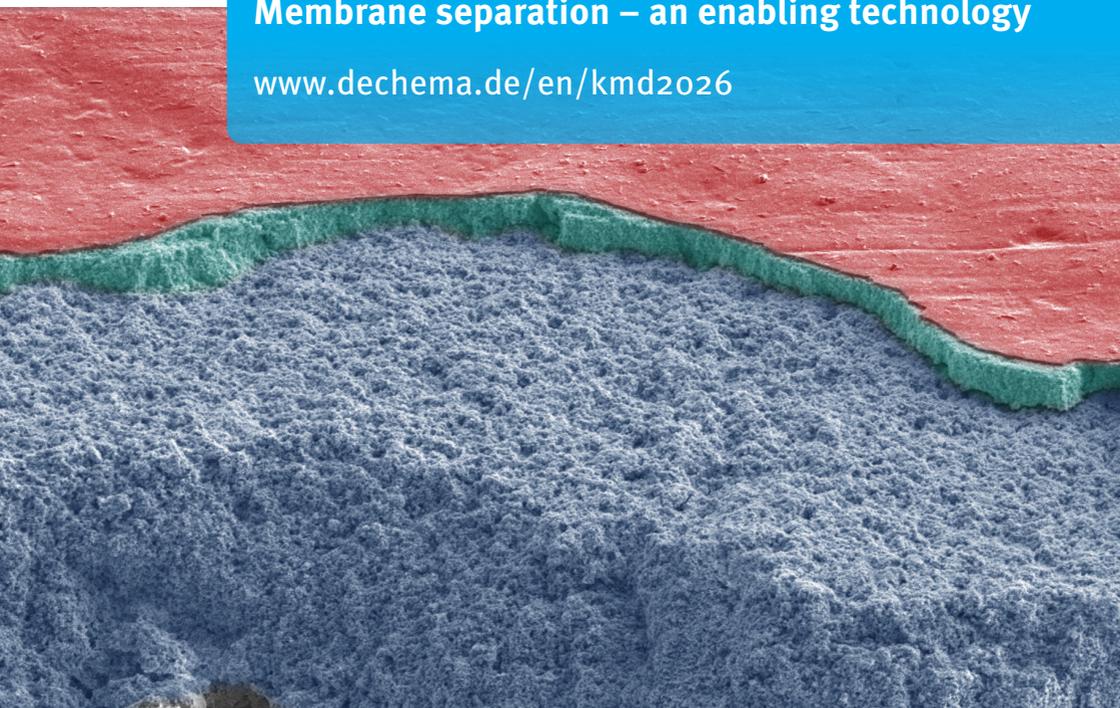
PROGRAMME

3 – 4 February 2026
H4 Hotel Kassel · Germany

Kassel Membrane Days

Membrane separation – an enabling technology

www.dechema.de/en/kmd2026



IN COOPERATION

GENERAL INFORMATION

CONFERENCE VENUE

H4 Hotel Kassel
Baumbachstrasse 2
34119 Kassel/Germany

COMMITTEE

| | |
|------------------------------|--|
| Bernhard Düppenbecker | Bayer AG, Dormagen/DE |
| Bernd Krause | Gambro Dialysatoren GmbH, Hechingen/DE |
| Peter Kreis | Evonik Operations GmbH, Marl/DE |
| Arne Lüken | BASF SE, Ludwigshafen/DE |
| Stefan Panglich | University Duisburg-Essen, Duisburg/DE and Deutsche Gesellschaft für Membrantechnik (DGMT), Essen |
| Mathias Ulbricht | University Duisburg-Essen, Essen/DE |
| Hartwig Voß | VMT Consulting - Membrane Separation Processes, Frankenthal/DE |
| Ingolf Voigt | Fraunhofer IKTS, Hermsdorf/DE |
| Claudia Weidlich | DECHEMA-Forschungsinstitut, Frankfurt am Main/DE |

POSTER VOTING

This year again, we are awarding poster prizes to the best posters! Cast your vote!
A link for voting will be available from 3 February, 16:00 h until 4 February, 13:30 h.

PROGRAMME OVERVIEW

Tuesday, 3 February 2026

| | | |
|-------|---------------------------------------|---------------------------------|
| 08:15 | Registration | |
| | Gartensaal | |
| 09:10 | Welcome Address | |
| 09:20 | PLENARY LECTURE 1 | |
| 10:00 | PLENARY LECTURE 2 | |
| 10:40 | Coffee Break | |
| | Gartensaal | Saal Borovsky+Oldenburg |
| 11:20 | S1: NF Membranes | S2: Membrane Bioreactors |
| 12:40 | Lunch Break | |
| 14:00 | S3: Applications 1, UF, NF, RO | S4: Membrane Fabrication |
| 15:20 | Coffee Break | |
| | Gartensaal | |
| 16:00 | Poster Pitches | |
| 17:00 | Poster Session | |
| 19:00 | Dinner Buffet | |
| 21:00 | End of Day 1 | |

Wednesday, 4 February 2026

| | | |
|-------|--|-----------------------------------|
| | Gartensaal | Saal Borovsky+Oldenburg |
| 09:00 | S5: Applications 2, ZLD | S6: Gas Separation |
| 10:40 | Coffee Break | |
| 11:20 | S7: Applications 3, Micropollutants | S8: Microporus Membranes |
| 12:40 | Lunch Break | |
| 13:40 | S9: Applications 4, Biotechnology | S10: Scaling & Fouling |
| 15:00 | Coffee Break | |
| | Gartensaal | |
| 15:40 | PLENARY LECTURE 3 | |
| 16:20 | Poster Prize Awards | |
| 16:35 | Closing Remarks | |
| 16:40 | End of the Conference | |

PROGRAMME

Tuesday, 3 February 2026

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| 08:15 | Registration |
| | Gartensaal |
| 09:10 | Welcome Address |
| 09:20 | PLENARY LECTURE 1 Developing ceramic membrane filtration technology for harsh filtration conditions Arian Nijmeijer, Shell Global Solution International BV, Amsterdam/NL Chair: Ingolf Voigt, Fraunhofer IKTS, Hermsdorf/DE |
| 10:00 | PLENARY LECTURE 2 Electrochemical membrane reactors for sustainable fuels and chemicals Marie-Laure Fontaine, SINTEF Industry, Oslo/NO Chair: Ingolf Voigt, Fraunhofer IKTS, Hermsdorf/DE |
| 10:40 | Coffee Break and Poster Viewing |
| | Gartensaal |
| | SESSION 1: NF MEMBRANES Chair: Ivo Vankelecom, KU LEUVEN, Heverlee/BE |
| 11:20 | Investigation of Layer-by-layer coated nanofiltration membranes for oligosaccharide concentration from fermentation broth treatment Christiane Sander ¹ ; Carlotta Milimonka ¹ ; Matthias Wessling ¹ ¹ RWTH Aachen University/DE |
| 11:40 | Covalently crosslinked polyelectrolyte multilayer membranes Robert Niestroj-Pahl ¹ ¹ University of Twente, Enschede/NL |
| 12:00 | Lithium recovery from monovalent / multivalent ion mixtures by polyelectrolyte multilayer nanofiltration membranes Kerstin Wienkamp ¹ ; Annabell Wallraff ¹ ; Hannah Roth ¹ ; Matthias Wessling ¹ ¹ RWTH Aachen University/DE |
| 12:20 | Polyelectrolyte complex nanofiltration membranes by two-step coating of polymeric ionomers and polyelectrolytes on porous polyacrylonitrile membranes Viktor Schaufler ¹ ; Mathias Ulbricht ¹ ¹ University Duisburg-Essen, Essen/DE |

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| 10:00 | PLENARY LECTURE 2 Electrochemical membrane reactors for sustainable fuels and chemicals Marie-Laure Fontaine, SINTEF Industry, Oslo/NO Chair: Ingolf Voigt, Fraunhofer IKTS, Hermsdorf/DE |
| 10:40 | Coffee Break and Poster Viewing |
| | Saal Borovsky+Oldenburg |
| | SESSION 2: MEMBRANE BIOREACTORS Chair: Bernhard Düppenbecker, Bayer AG, Dormagen/DE |
| 11:20 | Innovative MBR and water reuse schemes in chicken slaughterhouses Peter Aerts ¹ ; Steffen Richter ² ¹ Blue Foot Membranes BV, Lommel/BE; ² Blue Foot Membranes BV, Saerbeck/DE |
| 11:40 | New treatment concept for the WWTP Lindau for improving effluent quality for discharge into Constance Lake (Bodensee) Heike Burghard ¹ ; Walter Lamparter ² ¹ Garten- und Tiefbaubetriebe Lindau/DE; ² WTA UNISOL GmbH, Gotha/DE |
| 12:00 | Investigating the effect of membrane filtration on downstream ozonation in wastewater treatment Maximilian Werner ¹ ; Jie Ji ² ; Sajjad Abdighahroudi ² ; Minyi Yin ² ; Holger Lutze ² ; Stefan Panglisch ¹ ¹ University Duisburg-Essen, Duisburg/DE; ² TU Darmstadt/DE |
| 12:20 | Enhanced protein recovery from microalgae Tetraselmis chui using enzyme-grafted nylon membranes Tim Schreiber ¹ ; Martin Schmidt ¹ ; Andrea Prager ¹ ; Alexia Poidevin ² ; Estelle Couallier ² ; Agnes Schulze ¹ ¹ Leibniz-Institut für Oberflächenmodifizierung e.V., Leipzig/DE; ² Laboratoire de Génie des Procédés Environnement et Agroalimentaire, CNRS, Nantes Université, Saint-Nazaire/FR |

PROGRAMME

Tuesday, 3 February 2026

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|-------|--|
| 12:40 | Lunch Break |
| | Gartensaal |
| | SESSION 3: APPLICATIONS 1, UF, NF, RO <i>Chair: Arian Nijmeijer, Shell Global Solution International BV, Amsterdam/NL</i> |
| 14:00 | Nanofiltration investigations for wastewater purification and metal recovery from the Linz-Donawitz Converter Slag <i>Rama Swami Kantamani¹; Teqwa Khelifa¹; Lakshmi Kanth Viswamshetty¹; Norman Kelly¹; Ajay Patil¹</i> ¹ Helmholtz-Zentrum Dresden-Rossendorf e.V., Dresden/DE |
| 14:20 | Recovery and desalting of homogeneous catalysts by nanofiltration membranes to produce platform chemicals from biomass <i>Leon Schidowski¹; Dorothea Voß¹; Maximilian Poller¹; Jakob Albert¹</i> ¹ University Hamburg/DE |
| 14:40 | High-recovery brine treatment using ultra-high-pressure membrane processes for enhanced industrial water recycling <i>Christine Kleffner¹; Tim Santen²; Yuliya Schießler³</i> ¹ Bochum University of Applied Sciences/DE; ² University of Applied Sciences Cologne/DE; ³ Covestro Deutschland AG, Leverkusen/DE |
| 15:00 | A modified CCRO design for reduced OPEX and CAPEX <i>Áron Bóna¹; Ildikó Galambos¹</i> ¹ University of Pannonia, Nagykanizsa/HU |
| 15:20 | Coffee Break and Poster Viewing |
| | Gartensaal |
| 16:00 | Poster Pitches <i>Chair: Torsten Brinkmann, Helmholtz-Zentrum Hereon, Geesthacht/DE</i> |
| 17:00 | Poster Sessions |
| 19:00 | Dinner Buffet |
| 21:00 | End of Day 1 |

PROGRAMME

Tuesday, 3 February 2026

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|-------|---|
| 12:40 | Lunch Break |
| | Saal Borovsky+Oldenburg |
| | SESSION 4: MEMBRANE FABRICATION <i>Chair: Mathias Ulbricht, Universität Duisburg-Essen, Essen/DE</i> |
| 14:00 | Process-specific membranes - how to turn polymeric materials into tailor-made membranes <i>Murat Tutus¹; Michael Weiß¹</i> ¹ Fraunhofer Institute for Applied Polymer Research IAP, Potsdam/DE |
| 14:20 | Fabrication of free-standing PSS/PDADMAC ultra- and microfiltration membranes by incorporating cellulosic additives <i>Ang Zhao¹; Matthias Wessling¹</i> ¹ RWTH Aachen University/DE |
| 14:40 | Ultra-porous biopolymer membranes from nanoparticle-stabilized oil-in-water emulsions <i>Katja Heise¹; Vanessa Oliveira Castro¹; Wenqian Dang¹; Hans Lesny¹</i> ¹ TU Bergakademie Freiberg/DE |
| 15:00 | From the cradle to the full grown – the path to a new product line <i>Christian Göbbert¹; Anke-Gundula Roth¹; Kristin Remus¹</i> ¹ Nanostone Water GmbH, Halberstadt/DE |
| 15:20 | Coffee Break and Poster Viewing |
| | Gartensaal |
| 16:00 | Poster Pitches <i>Chair: Torsten Brinkmann, Helmholtz-Zentrum Hereon, Geesthacht/DE</i> |
| 17:00 | Poster Sessions |
| 19:00 | Dinner Buffet |
| 21:00 | End of Day 1 |

PROGRAMME

Wednesday, 4 February 2026

Gartensaal

SESSION 5: APPLICATIONS 2, ZLD

Chair: Arne Lüken, BASF SE, Ludwigshafen/DE

- 09:00 **Zero Liquid Discharge: 50 years of membrane innovation – from waste discharge to resource recovery**
Jochen Henkel¹
¹ Dupont, Rheinmuenster/DE
- 09:20 **Brine concentration and valorisation - Design and operation of an ultra-high-pressure RO systems with 20 years of operation**
Christoph Ruisinger¹; Juergen Mueller¹
¹ OSMO Membrane Systems GmbH, Leonberg/DE
- 09:40 **Membrane filtration in high viscosity applications**
Maik Geerken¹
¹ KOVALUS Separation Solutions, Aachen/DE
- 10:00 **Water reuse in water intensive industries - presentation of the R3VOLUTION project**
Christian Pflieger¹; Anja Gerbeth²; Emmanuel Kwaw Mensah¹; Tomas Nölle³; Senta Becker³; Eric Santos Clotas⁴; Sara Salvador Cob⁵
¹ Fraunhofer IKTS, Hermsdorf/DE; ² Fraunhofer IKTS, Dresden/DE;
³ Felix Schoeller GmbH & Co. KG, Weißenborn/DE;
⁴ Cetaqua Barcelona, Cornellà de Llobregat/ES; ⁵ VITO, Mol/BE
- 10:20 **From mining sludge to geopolymers - What about membranes?**
Katja Götze¹; Roland Haseneder¹
¹ TU Bergakademie Freiberg/DE

Coffee Break and Poster Viewing

Gartensaal

SESSION 7: APPLICATIONS 3, MICROPOLLUTANTS

Chair: Stefan Panglisch, Universität Duisburg-Essen, Duisburg/DE

- 11:20 **A mobile and multimodal pilot-scale setup for micropollutant removal**
Roxanne Engstler¹; Celina Brammer²; Karsten Cartarius¹
¹ Boll & Kirch Filterbau GmbH, Kerpen/DE; ² Bollbranic GmbH, Kerpen/DE
- 11:40 **Functionalized PES microfiltration membranes for enhanced and selective removal of endocrine disrupting chemicals**
Agnes Schulze¹; Zahra Niavarani¹; Daniel Breite¹
¹ Leibniz-Institut für Oberflächenmodifizierung e.V., Leipzig/DE

PROGRAMME

Wednesday, 4 February 2026

Saal Borovsky+Oldenburg

SESSION 6: GAS SEPARATION

Chair: Peter Kreis, Evonik Operations GmbH, Marl/DE

- 09:00 **Higher, faster, or further? – Industrial perspectives on gas membrane research**
Jens Rubner¹; Christian Voss¹
¹ Linde GmbH, Linde Engineering, Pullach/DE
- 09:20 **On the integrated development of membranes used for the transition of industry**
Maria de los Angeles Ramirez Kantun¹; Jelena Lillepär¹; Sergey Shishatskiy¹; Volkan Filiz¹; Torsten Brinkmann¹
¹ Helmholtz-Zentrum Hereon, Geesthacht/DE
- 09:40 **Carbon capture with membranes**
Patrick Schiffmann¹; Andrew Corner²
¹ Cool Planet Technologies, Geesthacht/DE;
² Cool Planet Technologies Ltd, Guildford/GB
- 10:00 **Membrane-based regeneration of TEG for hydrogen drying at the Energiepark Bad Lauchstädt**
Denis Worch¹; Thomas Gallert¹; Paul Graichen¹; Udo Lubenau¹; Hannes Richter²; Jan-Thomas Kühnert²
¹ DBI Gastechnologisches Institut gGmbH Freiberg, Leipzig/DE;
² Fraunhofer-Institut für Keramische Technologien und Systeme IKTS, Hermsdorf/DE
- 10:20 **Applications of low and high-temperature proton exchange membranes for hydrogen recycling**
Syed Shabab Haseeb¹; Christian Geml¹; Sven Schmitz¹
¹ DHBW Mannheim, Eppelheim/DE

Coffee Break and Poster Viewing

Saal Borovsky+Oldenburg

SESSION 8: MICROPOROUS MEMBRANES

Chair: Hartwig Voß, VMT Consulting - Membrane Separation Processes, Frankenthal/DE

- 11:20 **Novel carbon molecular sieve membrane for hydrogen separation, synthesized with a bio-inspired and green method**
Tim Van Gestel¹; Wilhelm A. Meulenber¹
¹ Forschungszentrum Jülich/DE
- 11:40 **Graphene based membranes: Layer-by-layer deposition of graphene flakes for separation applications**
Guobin Jia¹; Arne Lüken²; Maximilian Hupfer¹; Jonathan Plentz¹
¹ Leibniz Institute of Photonic Technology, Jena/DE; ² BASF SE, Ludwigshafen/DE

PROGRAMME

Wednesday, 4 February 2026

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| 12:00 | Application of powdered activated carbon in membrane filtration processes for advanced treatment of municipal wastewater <u>Grit Hoffmann</u> ¹ ; Stefan Panglisch ¹ ¹ Universität Duisburg-Essen, Duisburg/DE |
| 12:20 | Photocatalytic membrane for treatment of antibiotics in water <u>Martin Schmidt</u> ¹ ; Eberhard Küster ² ; Mechthild Schmitt-Jansen ² ; Martin Krauss ² ; Agnes Schulze ¹ ¹ Leibniz-Institut für Oberflächenmodifizierung e.V. (IOM), Leipzig/DE; ² Helmholtz Centre for Environmental Research - UFZ, Leipzig/DE |
| 12:40 | Lunch Break |
| | Gartensaal |
| | SESSION 9: APPLICATIONS 4, BIOTECHNOLOGY <i>Chair: Bernd Krause, Gambro Dialysatoren GmbH, Hechingen/DE</i> |
| 13:40 | Ultrafiltration membranes for protein separation and purification – Factors affecting performance and pathways for optimizations <u>Alexander Piry</u> ¹ ; Steffen Schütz ¹ ¹ MANN+HUMMEL Water Fluid Solution GmbH, Ludwigsburg/DE |
| 14:00 | POMLig – Product separation and catalyst recycle of the vanillin production from lignin using nanofiltration membranes <u>Max Papajewski</u> ¹ ; Stefanie Wesinger ¹ ; <u>Dorothea Voß</u> ¹ ; Jakob Albert ¹ ¹ Universität Hamburg (UHH)/DE |
| 14:20 | Membrane-based technology for digestate treatment and nutrient recovery in biogas plants <u>Kimball Roelofs</u> ¹ ; Elena Meabe ¹ ; Gunther Bisle ¹ ; Giancarlo Tanzi ² ¹ Berghof Membrane Technology GmbH, Eningen/DE; ² SEpra S.r.l., Cesano Maderno/IT |
| 14:40 | Flow-electrode capacitive deionization for sustainable valorization of acid whey in fermentation processes <u>Valeria M. Günther</u> ¹ ; Ilias Ouzlim ¹ ; Christian Linnartz ¹ ; Matthias Wessling ¹ ¹ RWTH Aachen University/DE |

PROGRAMME

Wednesday, 4 February 2026

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| 12:00 | Covalent polymeric composite materials for gas separation membranes <u>Daniel Kösters</u> ¹ ; Philipp Vana ¹ ¹ Georg-August-University Göttingen/DE |
| 12:20 | Organophilic mixed matrix membranes for ethyl acetate extraction from stripping gases <u>Ralf Wyrwa</u> ¹ ; Marcus Weyd ¹ ; Malwin Uthleb ¹ ; Thomas Hoyer ¹ ; Ingolf Voigt ¹ ; Andreas Hoffmann ² ; Christian Löser ² ¹ Fraunhofer-Institut für Keramische Technologien und Systeme IKTS, Hermsdorf/DE; ² TU Dresden/DE |
| 12:40 | Lunch Break |
| | Saal Borovsky+Oldenburg |
| | SESSION 10: SCALING & FOULING <i>Chair: Roland Haseneder, TU Bergakademie Freiberg/DE</i> |
| 13:40 | Experimental evaluation of scaling and concentration polarization resistance of micro-patterned TFC RO membranes <u>Maharshi Patel</u> ¹ ; Stefan Panglisch ¹ ; I.M.A. ElSherbiny ¹ ¹ University of Duisburg-Essen, Duisburg/DE |
| 14:00 | Investigation of the impact of a preliminary membrane cleaning on the efficiency of polyamide layer separation from end-of-life reverse osmosis membranes <u>Ida Schützen</u> ¹ ; Franziska Blauth ¹ ; Kevin Koenen ¹ ; Bettina Schiemann ¹ ¹ IUTA e.V., Duisburg/DE |
| 14:20 | Process contaminant fouling in membranes for CCS applications <u>Sean McIntyre</u> ¹ ; Marilou Vinot ¹ ; Andrew Foster ² ; Peter Budd ² ; Daryl Williams ³ ; Paul Iacomì ¹ ¹ Surface Measurement Systems, London/GB; ² The University of Manchester/GB; ³ Imperial College London/GB |
| 14:40 | From feed to brine: Enhancing membrane-based PFAS removal <u>Mirjana Futterlieb</u> ¹ ; Stefan Panglisch ¹ ; <u>Martin Futterlieb</u> ¹ ¹ Universität Duisburg-Essen, Duisburg/DE |

PROGRAMME

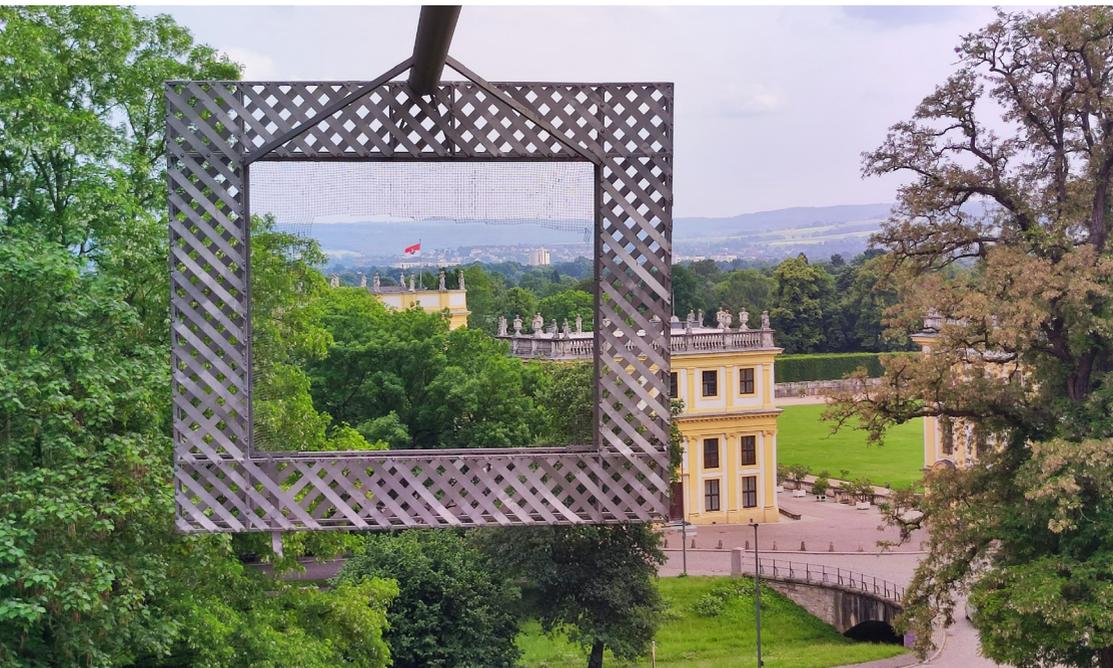
Wednesday, 4 February 2026

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| 15:00 | Coffee Break and Poster Viewing |
| | Gartensaal |
| 15:40 | <p>PLENARY LECTURE 3 New applications of solvent resistant nanofiltration (SRNF) and ultrafiltration (SRUF) in polymer synthesis and plastics recycling Ivo Vankelecom, KU LEUVEN, Heverlee/BE <i>Chair: Stefan Panglisch, Universität Duisburg-Essen, Duisburg/DE</i></p> |
| 16:20 | <p>Poster Prize Awards <i>Chair: Stefan Panglisch, Universität Duisburg-Essen, Duisburg/DE</i></p> |
| 16:35 | Closing Remarks |
| 16:40 | End of the Conference |

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POSTERS

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| P 01 | Doubling permeability with sacrificial nanoparticles: Breaking the trade-off barrier J. Roberto Andrade ¹ ; Tjerk R. Watt ¹ ; Parisa Moazezi ¹ ; Esra te Brinke ¹ ; Wiebe M. de Vos ¹ ¹ University of Twente, Enschede/NL |
| P 02 | Determination of PES-flat-sheet membrane and capillary membrane pore sizes using stabilized and coated spherical gold nanoparticles Maurice Aps ¹ ; Fabian Drenkow ¹ ; Nils Knop ¹ ¹ Thermo Fisher Scientific BPG GmbH, Wuppertal/DE |
| P 03 | Controlled structuring of PVDF membranes by variation of CCD substrate topography Yannick Heckmann ¹ ; Jens-Michel Pieschel ² ; Stefan Weißkircher ¹ ; Marcus Koch ¹ ; Gerhard Braun ¹ ; Markus Gallei ² ; Matthias Faust ¹ ¹ Saarland University of Applied Sciences, Saarbrücken/DE; ² Saarland University, Saarbrücken/DE |
| P 04 | Development of a double-layer fabrication method for multichannel capillary membranes Daniel Rattinger ¹ ; Jana Marx ¹ ; Jan Back ² ; Marc Koch ² ; Matthias Rainer ³ ; Martin Spruck ² ¹ MCI - the entrepreneurial school, LFU - University of Innsbruck/AT; ² MCI - the entrepreneurial school, Innsbruck/AT; ³ LFU - University of Innsbruck/AT |
| P 05 | Hollow fiber membrane contactors for direct air capture – Linking module performance to fiber morphology Tilman Schiffer ¹ ¹ RWTH Aachen University/DE |
| P 06 | Application of layer-by-layer NF membranes prepared from end-of-life RO modules for micropollutant removal Áron Bóna ¹ ; Girma Daba Deme ¹ ; Ildikó Galambos ¹ ¹ University of Pannonia, Nagykanizsa/HU |
| P 07 | An integrated NF-RO process for high quality irrigation water production from challenging wastewaters Áron Bóna ¹ ; Ildikó Galambos ¹ ; Abeneh Terefe Mekuria ¹ ¹ University of Pannonia, Nagykanizsa/HU |
| P 08 | LbL-coated ceramic membranes for drinking water production - Examination of potential backwash stability Julia Bennert ¹ ; Barbara Wendler ¹ ; Mathias Ernst ² ¹ DVGW-Forschungsstelle TUHH, Hamburg/DE; ² DVGW-Forschungsstelle TUHH / TU Hamburg/DE |
| P 09 | Development of process strategies for the temporary storage and extraction of hydrogen through the national natural gas network using inorganic molecular sieve membranes Jan Philipp Poths ¹ ; Kerstin Böttcher ¹ ; Marcus Weyd ¹ ; Adrian Simon ¹ ; Ingolf Voigt ² ; Michael Stelter ³ ¹ Fraunhofer IKTS, Hermsdorf/DE; ² Ernst Abbe Hochschule Jena/DE; ³ Friedrich Schiller Universität Jena/DE |

POSTERS

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| P 10 | The impact of co-immobilization on enzyme-grafted nylon membranes employed in microalgae filtration Marleen Nisser ¹ ; Martin Schmidt ¹ ; Agnes Schulz ¹ ¹ Leibniz-Institut für Oberflächenmodifizierung e.V., Leipzig/DE |
| P 11 | Scalable fabrication of Ti₄O₇ reactive electrochemical membranes for PFAS remediation in water Famke Sprakel ¹ ; Arian Nijmeijer ¹ ; André ten Elshof ¹ ; Marie-Alix Pizzoccaro-Zilamy ¹ ¹ University of Twente, Enschede/NL |
| P 12 | Development of a predictive pervaporation tool and modular experimental setup for early-stage process development Felix Pasch ¹ ; Marcus Grünwald ¹ ; Maria Polyakova ¹ ¹ Ruhr-Universität-Bochum/DE |
| P 13 | Membrane upscaling at MTG@KU Leuven Belgium Ivo Vankelecom ¹ ¹ KU LEUVEN, Heverlee/BE |
| P 14 | HOW TO BE NATURAL - Test waters according to DIN 2001-3 to challenge water treatment systems Jeldrik Moritz ¹ ; David Treitl ¹ ; Max Mörtel ¹ ; Elke Reifer ¹ ¹ WIS – Bundeswehr Research Institute for Protective Technologies and CBRN Protection, Münster/DE |
| P 15 | Comparative salt and micropollutant rejection of four NF membranes (modified vs. commercial) in real wastewater effluent Ildikó Galambos ¹ ; Aron Bona ¹ ; Girma Deme ¹ ; Abeneh Mekuria ¹ ¹ University of Pannonia, Nagykanizsa/HU |
| P 16 | Development of compatible membranes and catalysts for multifunctional catalytic membrane reactors – I-KaMeRa Christian Pflieger ¹ ; Jan Walter ² ; Thomas Friederici ² ; Lukas Matthies ² ; Michael Schwidder ² ; Franziska Scheffler ² ; Marcus Weyd ¹ ; Christiane Günther ³ ; Christof Hamel ² ¹ Fraunhofer IKTS, Hermsdorf/DE; ² Otto von Guericke University Magdeburg/DE; ³ Rauschert Kloster Veilsdorf GmbH/DE |
| P 17 | Solid-state assembly of a triazine-based polyimide-ceramic-polyimide sandwich membrane exhibiting near-perfect one-way water transport David Magnus Wolf ¹ ; Arian Nijmeijer ² ; Louis Winnubst ² ; Wilhelm Albert Meulenberg ¹ ; Marie-Alix Pizzoccaro-Zilamy ¹ ¹ Forschungszentrum Jülich/DE; ² University of Twente, Enschede/NL |

POSTERS

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| P 18 | Design parameter optimization of a membrane reactor for methanol synthesis using a sophisticated CFD model Theresa Hauth ¹ ; Konstantin Pielmaier ¹ ; Vincent Dieterich ¹ ; Nicolas Wein ¹ ; Hartmut Spliethoff ¹ ; Sebastian Fendt ¹ ¹ Technische Universität München, Garching/DE |
| P 19 | Bicontinuous zeolite-polymer composite membranes prepared by doctor-blade-assisted casting Aleksandra Przybylska ¹ ; Alexander Gruhle ¹ ; Helen Kraut ¹ ; Werner Goedel ¹ ¹ Technische Universität Chemnitz/DE |
| P 20 | Cutting the cost of carbon capture for industry - Cool Planet's Advanced Membrane Technology Patrick Schiffmann ¹ ; Torsten Brinkmann ² ; Andrew Corner ³ ¹ Cool Planet Technologies, Geesthacht/DE; ² Helmholtz-Zentrum Hereon, Geesthacht/DE; ³ Cool Planet Technologies Ltd, Guildford/GB |
| P 21 | Construction of a test rig for methanol synthesis in a membrane reactor Lukas Anthofer ¹ ; Theresa Hauth ¹ ; Sebastian Fendt ¹ ¹ TU München, Garching/DE |
| P 22 | pH-responsive K⁺/Na⁺ selective hot-pressed saloplastic membranes Hanxiao Zhou ¹ ; Wiebe de Vos ¹ ; Ernst Sudhölter ¹ ; Saskia Lindhoud ¹ ¹ University of Twente, Enschede/NL |
| P 23 | Digital and experimental design of polymer-based membrane adsorbers for direct air capture Emil Pashayev ¹ ; Prokopios Georgopoulos ¹ ¹ Helmholtz-Zentrum Hereon, Geesthacht/DE |
| P 24 | Low-swelling polyelectrolyte multilayers via hydrophobic copolymers for dense nanofiltration Sina Rezaei ¹ ; Esra te Brinke ¹ ; Wiebe M. de Vos ¹ ¹ University of Twente, Enschede/NL |

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More information: www.dechema.de/DECHEMAFORUM2026



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CONVERGENCE

ORGANISER AND CONTACT

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