

TUESDAY, 1 DECEMBER 2026

DGMT Poster Day & Welcome Reception | NGP² Aachen

10:00-17:00

DGMT POSTER DAY

organised by



Nederlands Membranengenootschap



19:00

WELCOME RECEPTION

SPONSORED BY



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vivta

Chemical Process Engineering
at RWTH Aachen e.V.



DWI

Leibniz-Institut für
Interaktive Materialien



WEDNESDAY, 2 DECEMBER 2026

Conference day 1 | Eurogress Aachen

09:15-10:45	OPENING SESSION Brussel Hall	
	Opening remarks Matthias Wessling, RWTH Aachen University & DWI - Leibniz Institute for Interactive Materials	
	09:30	KEYNOTE I - Do we still need UF? Hollow Fiber Nanofiltration and the Next Generation of Water Reclamation Geert-Henk Kooops, NX Filtration
	10:15	INDUSTRY PITCHES
10:45-11:00	COFFEE BREAK	
11:00-12:30	BRUSSEL HALL	ROOM K1
	ELECTROMEMBRANE SEPARATIONS	MEMBRANES I
	11:00Coupling redox-electrochemistry with membrane design for selective separations Xiao Su University of Illinois at Urbana-Champaign 11:30Next-Gen Electro-Membrane Lithium Extraction Efficient, Sustainable, Battery-Grade Christian Hying Evonik Innovation Factory 12:00Accounting for two-step ion pairing of M_2SO_4 salt sorption in cation exchange membranes Rachel Huang École Polytechnique Fédérale de Lausanne	11:00tbd Hannah Roth University of Duisburg-Essen (UDE) & University of Twente 11:30Developing Hollow Fiber UF/MF Membranes Using Novel Industrially Fabricated Polymers Jurjen Regenspurg EMI Twente 12:00Nanoparticles as Sacrificial Pore Fillers for the Fabrication of High Permeability Polyelectrolyte Multilayer Membranes Roberto Andrade University of Twente
12:30-13:30	LUNCH	
13:30-15:00	MEMBRANES FOR ENERGY APPLICATIONS	WATER TREATMENT
	13:30Backbone Influence on Internal Morphology of Ion-Exchange Membranes for Energy Applications Ana Konovalova DTU Energy, Technical University of Denmark 14:00Experimental Investigation of a Spiral-Wound Membrane Humidifier for Proton Exchange Membrane Fuel Cells Philipp Schwab Technical University of Munich 14:30Scalable fabrication of polymer based porous separators for alkaline water electrolysis Wendy Jonkers EMI Twente	13:30tbd Karthi Pitchaikani Pentair 14:00Micropollutant Removal from Wastewater Effluent by Polyelectrolyte Multilayer NF Membranes Converted from End-of-Life RO Modules Aron Bona University of Pannonia 14:30Hybrid ion exchange - reverse osmosis treatment of PFAS-contaminated waters without antiscalants: high-recovery operation and concentrate management Martin Futterlieb Universität Duisburg-Essen
15:00-16:30	COFFEE BREAK & POSTER SESSION sponsored by  PENTAIR	
16:30-18:00	MEMBRANE REACTORS	BIOSEPARATIONS
	16:30The stony path from academic membrane research to industrial applications Klaus-Viktor Peinemann King Abdullah University of Science and Technology (KAUST) 17:00Packed Bed Membrane Reactor for Ammonia Cracking Process Roberto Fiorillo Eindhoven University of Technology 17:30Performance evaluation of structured POCS catalysts for hydrogen production via ammonia decomposition Valentina Cechetto Eindhoven University of Technology	16:30tbd Karin Schroen Wageningen University 17:00Development and characterization of biocatalytic membrane reactors Martin Schmidt Leibniz Institute of Surface Engineering e.V (IOM) 17:30Hollow fiber membrane oxygenators: Influence of blood mixing on membrane oxygenators efficiency Ana Martins Costa University of Twente
19:00	CONFERENCE DINNER	



THURSDAY, 3 DECEMBER 2026

Conference day 2 | Eurogress Aachen

09:15-10:45	PLENARY SESSION Brussel Hall	
	09:15	KEYNOTE II - Self-assembly and membranes for precise separations Suzana Nunes, King Abdullah University of Science and Technology (KAUST)
	10:00	KEYNOTE III - Electrochemical Hydrogen Separation from Diluted Gas Mixtures: When Separation Meets Compression Wibke Zängler, RWTH Aachen University
10:45-11:00	COFFEE BREAK	
11:00-12:30	BRUSSEL HALL	ROOM K1
	DESALINATION	PROCESS ENGINEERING
	11:00	What we do and what we still don't know about ion transport in membranes Viatcheslav Freger Technion – Israel Institute of Technology
	11:30	Concentrating brines up to saturation using low-salt-rejection reverse osmosis Lena Sophie Riechers University of Twente
	12:00	Critical raw material recovery with tailor-made nanofiltration membranes Milan Abel naion.tech
12:30-13:30	LUNCH	
13:30-15:00	MEMBRANES II	GAS & VAPOR SEPARATION
	13:30	High purity H ₂ recovery from NH ₃ -cracking with Pd membrane technology Thijs Peters SINTEF
	14:00	Beyond the Robeson Plot – Industrial perspectives on gas membrane research Jens Rubner Linde GmbH
	14:30	Towards Large scale ZIF-8 membrane for N ₂ separation from fluorinated gases at CERN Amin Bouzaiene CERN & École Polytechnique Fédérale de Lausanne
15:00-15:15	COFFEE BREAK	
15:15-16:45	MEMBRANES III	EU PROJECTS
	15:15	Design and testing of a membrane-based solar desalination unit for emergency conditions Gabriele Copetti Politecnico di Torino
	15:45	Efficiency and energy consumption analysis of bipolar membrane electrodialysis for electrochemical CO ₂ capture Sara Vallejo Castaño Wetsus
	16:15	Process and membrane developments to assist purification and additive recovery of used lubricant oils Pieter Vandezande VITO
16:45-17:45	CLOSING SESSION & POSTER PRIZE Brussel Hall	
	16:45	KEYNOTE IV - tbd Matthias Wessling, RWTH Aachen University & DWI - Leibniz Institute for Interactive Materials
	17:30	Closing remarks