

TUESDAY, 1 DECEMBER 2026

DGMT Poster Day & Welcome Reception | NGP² Aachen

10:00-16:30

DGMT POSTER DAY

organised by



Nederlands Membranengenootschap



18:00

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 ELECTROMEMBRANE SEPARATIONS 11:00 Coupling redox-electrochemistry with membrane design for selective separations Xiao Su University of Illinois at Urbana-Champaign 11:30 Next-gen electro-membrane lithium extraction: Efficient, sustainable, battery-grade Christian Hying Evonik Innovation Factory 12:00 Accounting for two-step ion pairing of M_2SO_4 salt sorption in cation exchange membranes Rachel Huang École Polytechnique Fédérale de Lausanne	ROOM K1 MEMBRANES I 11:00 Polyamide membranes with intrinsic coordination sites for ion-ion separation Razi Epsztein Technion – Israel Institute of Technology 11:30 One-step fabrication of tunable Fumion/PAA PEC membranes for ion and micropollutant separation Kejing Li Technion – Israel Institute of Technology 12:00 Beyond conventional chemical color-diffusion NEMD: Alternating color fields for ionic conductivity estimation in finite diffusion domains Abhishek Khetan RWTH Aachen University
12:30-13:30	LUNCH	
13:30-15:00	MEMBRANES FOR ENERGY APPLICATIONS 13:30 Backbone influence on internal morphology of ion-exchange membranes for energy applications Anastasiia Konovalova DTU Energy, Technical University of Denmark 14:00 Experimental investigation of a spiral-wound membrane humidifier for proton exchange membrane fuel cells Philipp Schwab Technical University of Munich 14:30 Scalable fabrication of polymer based porous separators for alkaline water electrolysis Wendy Jonkers EMI Twente	WATER TREATMENT 13:30 Treating Highly Variable Industrial Wastewater with Helix Tubular Membranes in a Side-Stream MBR Manuel Chaumaz Pentair 14:00 Micropollutant removal from wastewater effluent by polyelectrolyte multilayer NF membranes converted from end-of-life RO modules Aron Bona University of Pannonia 14:30 Hybrid 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 16:30 The stony path from academic membrane research to industrial applications Klaus-Viktor Peinemann GMT Membrantechnik GmbH 17:00 Packed bed membrane reactor for ammonia cracking process Roberto Fiorillo Eindhoven University of Technology 17:30 Performance evaluation of structured POCS catalysts for hydrogen production via ammonia decomposition Valentina Cechetto Eindhoven University of Technology	BIOSEPARATIONS 16:30 From microfluidics to membranes Karin Schroen Wageningen University 17:00 Development and characterization of biocatalytic membrane reactors Martin Schmidt Leibniz Institute of Surface Engineering e.V (IOM) 17:30 Enzyme functionalized nylon membranes for improving protein recovery from microalgae extracts of Tetraselmis chui Tim Schreiber Leibniz Institute of Surface Engineering e.V (IOM)
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 understand 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	11:00 Circular economy for end-of-life membranes Franziska Blauth Institute for Environment & Energy, Technology & Analytics e. V. (IUTA) 11:30 Selected industrial applications of hollow fiber membrane contactors in carbon capture systems Martin Ulbricht Thermo Fisher Scientific BPG GmbH 12:00 Organic solvent nanofiltration for sustainable and efficient industrial processes Johannes Kamp BORSIG Membrane Technology GmbH
12:30-13:30	LUNCH	
13:30-15:00	MEMBRANES II	GAS & VAPOR SEPARATION
	13:30 The Evolving Toolbox for Polyelectrolyte Membranes Hannah Roth University of Duisburg-Essen (UDE) & University of Twente 14:00 Developing hollow fiber UF/MF membranes using novel industrially fabricated polymers Jurjen Regenspurg EMI Twente 14:30 Nanoparticles as sacrificial pore fillers for the fabrication of high permeability polyelectrolyte multilayer membranes Roberto Andrade University of Twente	13:30 High purity H₂ recovery from NH₃-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 N₂ separation from fluorinated gases at CERN Amin Bouzaiene CERN & École Polytechnique Fédérale de Lausanne
15:00-15:15	COFFEE BREAK	
15:15-17:00	EU PROJECTS Joint Q&A after talks	MEMBRANES III
	15:15 Design and testing of a membrane-based solar desalination unit for emergency conditions Matteo Fasano Politecnico di Torino 15:30 Solar-assisted membrane distillation: Model-based optimization and preliminary validation at pilot scale Matteo Fasano Politecnico di Torino 15:45 Novel SiC-based and reinforced membranes for H₂ and CO₂ separation from steel-industry flue gas Recep Kaya Istanbul Technical University & Hannes Richter Fraunhofer IKTS 16:00 Efficiency and energy consumption analysis of bipolar membrane electrodialysis for electrochemical CO₂ capture Sara Vallejo Castaño Wetsus 16:15 Process and membrane developments to assist purification and additive recovery of used lubricant oils Pieter Vandezande VITO & Bart Coen a-membranes	15:15 Forming membranes from colloids: A potential route towards designable structures Zeynep Culfaz Middle East Technical University 15:45 Confined growth of triazine-based polyimide networks via supramolecular solid-state polymerization David Magnus Wolf Jülich Research Centre 16:15 APTES-Modified MXene incorporated biodegradable Janus PLA/PEG nanofibrous membranes for oil-water separation İrem Kaya Gebze Technical University
17:00-18:00	CLOSING SESSION & POSTER PRIZE Brussel Hall	
	17:00 KEYNOTE IV - Whispering with membrane modules Matthias Wessling, RWTH Aachen University & DWI - Leibniz Institute for Interactive Materials 17:45 Closing remarks	