




# 17<sup>th</sup> Aachener Membran Kolloquium - November 14<sup>th</sup>/15<sup>th</sup>, 2018

## Conference program

**Tuesday, November 13<sup>th</sup>, 2018, 6 p.m.:** welcome reception with labtours sponsored by NX Filtration



## Wednesday, November 14<sup>th</sup>, 2018

8:30	<b>Opening session</b> - Brüsselsaal - Chair: M. Wessling		8:30
8:45	M. Wessling - AVT.CVT, RWTH Aachen University & DWI - Leibniz Institute for Interactive Materials		8:45
9:30	<b>Enabling widespread use of microporous materials for challenging organic solvent separations</b>		9:30
9:50	R. Lively Georgia Institute of Technology		9:50
10:30	<b>Industrial pitch</b> - moderated by C. Voss		10:30
11:00	<b>Pitch presentations I</b> - moderated by A. Kemperman		11:00
11:00	<b>Coffee break</b>		11:00
11:00	<b>Reverse and forward osmosis</b> - Brüsselsaal - Chair: G. Bargeman	<b>Gas permeation I</b> - K1 - Chair: J. Leistner	11:00
11:30	<b>Membrane contactors for resource recovery and energy saving separations</b> L. van Dijk BLUE-tec	<b>Removal of water from solvents by hydrophilic zeolite LTA membranes</b> J. Caro Leibniz University Hannover	11:30
12:00	<b>Performance of Lewabran® ULP RO membrane for water reuse applications</b> U. Dölchow IAB Ionenaustauscher GmbH	<b>PBI mixed matrix hollow fiber membranes: influence of ZIF8 filler over mixed gas transport</b> O. David Tecnalia Research and Innovation	12:00
12:30	<b>Tubular forward osmosis membranes and modules</b> K. Roelofs Berghof Membrane Technology GmbH	<b>Ultra-thin polymers of intrinsic microporosity in high pressure gases and organic vapor mixtures</b> W. Ogieglo KAUST	12:30
13:00	<b>Lunch</b>		13:00
13:30	<b>Gas permeation II</b> - Brüsselsaal - Chair: M. Logemann	<b>Water treatment I</b> - K1 - Chair: E. Roesink	13:30
14:00	<b>Efficient gas separation by customized hollow fiber membranes</b> J. Leistner Evonik Resource Efficiency GmbH	<b>Efficient water treatment in Canadian oil sands mine</b> S. Motta Cabrera University of Twente	14:00
14:30	<b>Novel highly stable and highly selective membranes for industrial gas processing plants</b> M. Bauer Linde AG	<b>Ceramic nano- and microfiltration for water re-use from municipal wastewater</b> H. van de Griek Evides Industrierwater	14:30
15:00	<b>Towards a new membrane for CO<sub>2</sub> separations: laboratory scale and process simulation investigations</b> T. Brinkmann Helmholtz Zentrum Geesthacht	<b>Capillary nanofiltration under anoxic conditions as post-treatment after bank filtration - improvement of chemical cleaning and removal of sulphate and organic micropollutants</b> A. Jährig, Kompetenzzentrum Wasser Berlin gGmbH	15:00
16:00	<b>Coffee break &amp; poster session</b> sponsored by Pentair 		16:00
16:30	<b>Membrane processes I</b> - Brüsselsaal - Chair: S. Djeljadini	<b>Membrane processes II</b> - K1 - Chair: U. Beuscher	16:30
17:00	<b>Non-conventional channel design for high throughput crossflow screening filters</b> A. Helling Sartorius Stedim Biotech GmbH	<b>De-aeration of salt solutions using a membrane contactor</b> G. Bargeman Nouryon	17:00
17:30	<b>Lignin derived fractions – developing performance based chemicals and materials using membrane separation technology</b> P. Vandezande VITO	<b>Machine-based learning of predictive solvent flux models for ceramic membranes</b> R. Goebel TU Dortmund	17:30
19:00	<b>Four MABR pilots: long-term performance review</b> M. Di Pofi SUEZ Water Technologies & Solutions	<b>Recent industrial OSN units: from process idea to industrial implementation</b> M.-S. Haverkamp Borsig GmbH	19:00
<b>Conference dinner in the City Hall</b>			

# Thursday, November 15<sup>th</sup>, 2018

<b>Plenary session</b> - Brüsselsaal - Chair: M. Wessling	
09:15	<b>Ion-exchange membranes - known products with new opportunities in process water and energy applications</b> B. Bauer Fumatech BWT GmbH
10:00	<b>Opportunities for flow-electrode capacitive deionization: a new water treatment process</b> A. Rommerskirchen, C. Linnartz AVT.CVT, RWTH Aachen University
10:30	<b>Pitch presentations II</b> - moderated by J. Potreck
11:15	<b>Coffee break sponsored by ELSEVIER</b>
<b>Membrane filtration</b> - Brüsselsaal - Chair: L. van Dijk	
11:45	<b>Hollow fiber nanofiltration - new chemistry, new applications, new markets</b> E. Roesink NX Filtration
12:15	<b>+Flux: a new approach in small and large beer membrane filtration</b> J. Potreck Pentair
12:45	<b>Advanced ultrafiltration technology for produced water treatment</b> T. Steube Microdyn-Nadir
<b>Membranes</b> - K1 - Chair: S. Panglisch	
11:45	<b>Advanced microporous polymeric membranes for molecular separations and energy storage</b> Q. Song Imperial College London
12:15	<b>MABMEM - a material toolbox for the modification of ultrafiltration membranes</b> O. Gronwald BASF SE
12:45	<b>Tunability of aquaporin based biomimetic membranes for specific applications</b> S. Braekevelt Aquaporin
<b>Lunch</b>	
<b>Process intensification</b> - Brüsselsaal - Chair: B. Aumeier	
14:15	<b>Porous sorbent polymer catalyst composite membranes for the removal of Hg and SO<sub>2</sub> from flue gas</b> U. Beuscher W. L. Gore & Associates
14:45	<b>Gas-liquid absorption and water production intensification thanks to membrane processes</b> E. Favre ENSIC, Université de Lorraine
15:15	<b>Transferring synergy effects of hybrid membrane processes into technical scale</b> S. Panglisch Universität Duisburg-Essen
<b>Water treatment II</b> - K1 - Chair: H. Roth	
14:15	<b>Multi-reuse research project: recycling municipal wastewater for industrial purposes</b> C. Starke Inge GmbH
14:45	<b>Development and evaluation of an antifouling coating for reverse osmosis membranes which can be applied in modules</b> S. Laghmari Universität Duisburg-Essen
15:15	<b>Recovery of magnesium oxide from seawater concentrate</b> D. Janowitz STEP Consulting GmbH
<b>Closing session &amp; poster prize</b> - Brüsselsaal - Chair: M. Wessling	
15:45	<b>Membranes in sustainable process engineering</b> Matthias Wessling AVT.CVT, RWTH Aachen University & DWI - Leibniz Institute for Interactive Materials
16:15	<b>Closure</b>

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