

International Conference on

**MEMBRANES IN DRINKING AND
INDUSTRIAL WATER PRODUCTION**

**Leeuwarden, The Netherlands
6–8 February 2017**

PROGRAMME



PROGRAMME OUTLINE

Sunday February 5

15.00–18.00 Registration

Monday February 6

08.00–10.45 Registration

11.00 Greetings and Opening

Ursula Annunziata, EDS President

Elaine Alwayn, Director Water & Soil, Ministry of Infrastructure and the Environment, The Netherlands

11.30–12.00 Keynote – Eric Roesink, NX Filtration B.V.

New markets with one step hollow fiber nanofiltration

12.00–13.00 Lunch

13.00–17.00 Sessions

17.30 Visit to Wetsus: Tour, Drinks and Buffet

Keynote – Bert Hamelers, Program Director Wetsus

Tuesday February 7

09.00 Technical sessions

20.00 Gala dinner

Wednesday February 8

09.00–11.00 Sessions

11.00 Keynote – Piotr Dlugolecki, Berghof Membrane Technology GmbH

Bringing innovations to the water market

11.30 Closing

12.00 Excursion to Afsluitdijk Exhibition Center, Presentation about Blue Energy
Transport by coach to Schiphol Airport (or back to Leeuwarden)



EU H2020 Project Progress Reports

INTEGRIOIL Technology for the treatment of produced water and refinery wastewater

REvived Low energy solution for drinking water production by a revival of ED systems

SALTGAE Techno-economic feasibility of using algae to treat saline wastewater from the food industry

PROGRAMME OUTLINE

Monday afternoon February 6

	Room A	Room B
13.00–14.40	1 Electrodialysis (REvivED)	2 Membrane fouling / Biofouling
14.40–15.00	Coffee break	
15.00–17.00	3 Electrodialysis	4 Membrane fouling / Biofouling

Tuesday February 7

	Room A	Room B	Room C
9.00–10.40	5 Modelling	6 Removal of micropollutants/contaminants	7 Drinking water
10.40–11.00	Coffee break		
11.00–13.00	8 Modelling	9 Ultrafiltration	10 Membrane distillation
13.00–14.00	Lunch		
	Room A	Room B	
14.00–15.20	11 Modelling	12 Membrane performance / applications	
15.20–15.40	Coffee break		
15.40–17.00	13 Modelling	14 Membrane filtration / Biofilms	

Wednesday February 8

	Room A	Room B
9.00–10.40	15 Wastewater treatment / Water reuse	16 FO / RO / NF / Economics
10.40–11.00	Coffee break	
11.00–12.00	Closing session	
12.00	Box lunch and plant visit	

MONDAY AFTERNOON

6 FEBRUARY 2017

Room A

1 Electrodialysis (REvived)

- 13.00 27** Low energy seawater desalination using multi-stage electrodialysis
G. Doornbusch, M. Tedesco, J. Post, K. Nijmeijer
- 13.20 42** Understanding diffusion of organic compounds in ion exchange membranes
M. Nowak, M. Vanoppen, J. Post, A. Verliefde
- 13.40 110** CFD simulation of electrodialysis channels equipped with profiled membranes
M. La Cerva, L. Gurreri, A. Cipollina, A. Tamburini, M. Ciofalo, G. Micale
- 14.00 111** Modelling of electrodialysis units by a multi-scale process simulator
A. Campione, L. Gurreri, A. Cipollina, A. Tamburini, D. Bogle, G. Micale
- 14.20 6** Application of electrodialysis technology for treatment of an anion exchange brine solution including reduction of onsite chemical use and by-product recovery
E. Vaudevire, K. Messologitis

14.40–15.00 Coffee break

3 Electrodialysis

- 15.00 104** Membrane strategies against the influence of multivalent ions in reverse electrodialysis
J. Moreno, V. Díez, M. Saakes, K. Nijmeijer
- 15.20 33** Theory and perspective of water desalination by shock electrodialysis
M. Tedesco
- 15.40 37** Identifying optimal membrane thickness for (reverse) electrodialysis
C. Ersoy, P.M. Biesheuvel, M. Tedesco
- 16.00 46** Modelling of reverse electrodialysis for improving its design and performance
S. Pawlowski, C. Galinha, J. Crespo, S. Velizarov
- 16.20 26** Molecular modelling of membrane-solute interactions in desalination systems using ion exchange membranes
S. Galier, A. Fuoco, G. De Luca, H. Roux-de Balman
- 16.40 32** NH_4NO_3 removal from condensate: the efficiency of ED, RO and MD and the impact on corrosion behaviour
E. De Meyer, P. Van Elslande, M. Vanoppen, E. van den Brande, A.R. D. Verliefde

MONDAY AFTERNOON

6 FEBRUARY 2017

Room B

2 Membrane fouling / Biofouling

- 13.00 **38** RO fouling control by optimizing pre-treatment, membrane flux and air/water cleaning
B. Blankert, E.R. Cornelissen, D.J.H. Harmsen, L.P. Wessels, W.G.J. van der Meer
- 13.20 **50** Improving the membrane fouling simulator for representative and controlled fouling experiments
H.J. de Vries, P. van den Brink, F. Stams, C.M. Plugge
- 13.40 **60** Understanding membrane fouling in produced water treatment
J. Dickhout, P.M. Biesheuvel, W. de Vos, R. Lammertink
- 14.00 **47** Fouling of ultrafiltration membranes during algal blooms: the role of algal organic matter in seawater
Ni. Dhakal, A. Ouda, S.G. Salinas-Rodriguez, J.C. Schippers, M.D. Kennedy
- 14.20 **66** An energy-efficient method for mitigating membrane fouling: a novel embodiment of the inverse fluidized bed (IFB)
A. Ma, F. Zamani, A.G. Fane, Jia Wei Chew

14.40–15.00 Coffee break

4 Membrane fouling / Biofouling

- 15.00 **68** A new method for assessing bacterial growth in seawater reverse osmosis systems: Method development and applications
A. Abushaban, S.G. Salinas-Rodriguez, S. Mondal, S.A. Goueli, J.C. Schippers, M.D. Kennedy
- 15.20 **109** Predicting the impact of feed spacer modification on biofouling by hydraulic characterization and biofouling studies in membrane fouling simulators
J.S. Vrouwenvelder, A. Siddiqui, S. Lehmann, Sz. S. Bucs, M. Fresquet, L. Fe, E.I.E.C. Prest, J. Ogier, C. Schellenberg, M.C.M. van Loosdrecht, J.C. Kruithof
- 15.40 **52** Antimicrobial and antifouling graphene containing spacer for fouling control in membrane technology
S.P. Singh, Yilun Li, Y. Oren, J.M. Tour, C.J. Arnusch
- 16.00 **91** Spatially-resolved in-situ quantification of biofilms using optical coherence tomography in a spacer filled membrane systems
Sz.S. Bucs, L. Fortunato, R. Valladares Linares, J.S. Vrouwenvelder
- 16.20 **40** Combining force measurements to relate composition and strength of (artificial) biofilms
N.M. Pfaff, P. van den Brink, J.M. Kleijn, M.C.M. Van Loosdrecht
- 16.40 **53** Biofouling prevention strategy in forward osmosis using air-scouring
Sheng Li, Youngjin Kim, S. Phuntsho, Ho Kyong Shon, T.O. Leiknes, N. Ghaffour

TUESDAY MORNING

7 FEBRUARY 2017

Room A

5 Modelling

9.00 **KEYNOTE**

54 Desalination and energy-harvesting dynamics of (reverse) electrodialysis stacks utilizing intercalation electrodes

K.C. Smith

9.40 **14** Combined ion and water flow in ion exchange membranes and carbon nanotubes: From Space Charge theory to Stefan Maxwell, for single pores and full ED cells

P.M. Biesheuvel

10.00 **18** Improving pressure-driven ion separations by nanoporous membranes with optimized pore geometry and surface charge density

B. Balannec, H. Zhu, A. Ghoufi, A. Szymczyk

10.20 **16** Energy consumption modeling in membrane capacitive deionization

J.E. Dykstra

10.40–11.00 Coffee break

8 Modelling

11.00 **24** Modelling ion transport and adsorption in porous carbon electrodes including the effect of chemical charge

G.C. Franken, J.E. Dykstra

11.20 **8** Interactions of organics within hydrated selective layer of reverse osmosis desalination membrane: a combined experimental and computational study

A. Ghoufi, E. Drazevic, A. Szymczyk

11.40 **41** Full-scale air gap membrane distillation (AGMD) model, opportunities for module design improvement

I. Hitsov, K. De Sitter, C. Dotremont, I. Nopens

12.00 **45** Modeling dielectric exclusion effects in ionic transport through hydrophobic nanopores

M. Manghi, B. Loubet, J. Palmeri

12.20 **49** Carbon nanotube membranes: from paper to practice

D.A.M. de Winter

12.40 **56** Signature of non-electrostatic interactions in nanofiltration

J. Palmeri, A. Deratani

13.00–14.00 Lunch

TUESDAY MORNING

7 FEBRUARY 2017

Room B

6 Removal of micropollutants/contaminants

- 9.00 **15** Removal of contaminants of emerging concern and pathogens on an innovative hybrid PAC/membrane process
Y. Poussade, P. Sauvignet, I. Saudrais, A. Gaid, C. Daines
- 9.20 **81** Multivalent ion and micro-pollutant removal by polyelectrolyte multilayer based hollow fiber nanofiltration membranes
W.M. de Vos, S. Ilyas, D. Reurink, J. de Grooth
- 9.40 **25** Positively charged membranes for inactivation of MS2 bacteriophages, Hepatitis A and Adeno viruses
T.R. Sinclair, D. Robles, S. van den Hengel, W.M. de Vos, S.A. Rutjes, A.M. de Roda Husman, H.D.W. Roesink
- 10.00 **94** Polyelectrolyte-coated Fe₃O₄ nanoparticles and their affinity to phosphate
L. Paltrinieri, M. Wang, E.J.R. Sudhölter, L.C.P.M. de Smet

10.40–11.00 Coffee break

9 Ultrafiltration

- 11.00 **36** Ultrafiltration post-treatment as effective approach to enhance the biological stability of impoundment-originated drinking water
R. Schurer, W. Hijnen, E. Cornelissen, J.C. Schippers, M.D. Kennedy, B. van der Wal
- 11.20 **86** Effects of low water temperature in the performance of ultrafiltration systems
E. Jové, S. Das, J. Suárez, V. García-Molina, V. Gómez
- 11.40 **112** Comparison of low and high flux river water filtration with Liqui-Flux® W-series ultrafiltration modules
M. König, D. Schedler
- 12.00 **61** Produced water treatment by ultrafiltration multichannel ceramic membrane
E. Frederic, C. Guigui, P. Schmitz, P. Baldoni-Andrey, M. Jacob, C. Machinal, E. Barbier
- 12.20 **48** Recovery of brackish water from reactive dyeing wastewater by ultrafiltration
M. Erkanli, B. Kocer, R.D. Zaf, L. Yilmaz, Z. Culfaz-Emecen, U. Yetis

13.00–14.00 Lunch

TUESDAY MORNING

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Room C

7 Drinking water

- 9.00 **74** Permeate remineralization with targeted magnesium and calcium content for domestic RO units
Y. Orestov, T. Mitchenko
- 9.20 **83** Theoretical analysis of a wet cooling tower coupled with a desalination plant for fresh water yield
P. Sella Muthu, C. Manoharan, R. Senthil Kumar
- 9.40 **43** Pilot plant for supercritical water desalination
S. van Wyk, S.O. Odu, A.G.J. van der Ham, S.R.A. Kersten
- 10.00 **89** Water vapor capturing from flue gases for reuse as potable water and in industrial applications
Z. Borneman, L. Daal, H. Teunis, K. Nijmeijer

10.40–11.00 Coffee break

10 Membrane distillation

- 11.00 **115** CFD parametrical study of the spacer geometry for membrane distillation
M. La Cerva, L. Gurreri, A. Cipollina, A. Tamburini, M. Ciofalo, G. Micale
- 11.20 **19** Numerical dynamic behavior of vacuum membrane distillation
A.S. Hassan
- 11.40 **102** CFD Simulation of corrugated feed channel of direct contact membrane distillation
Y. Elhenawy, A.A. Mabrouk, M.M. Elsakka
- 12.00 **95** Experimental investigation of air gap membrane distillation system with heat recovery
Y. Elhenawy, A. Farag, M. El-Ghandour, M. Shatat, G.H. Moustafa

13.00–14.20 Lunch

TUESDAY AFTERNOON

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Room A

11 Modelling

14.00 65 Dynamic membrane theory for bioelectrochemical systems

A. de Lichtervelde, A. ter Heijne, P.M. Biesheuvel

14.20 71 Ion transfer in reverse osmosis membranes

Y.S. Oren, R.G.H. Lammertink, P.M. Biesheuvel

14.40 90 Effect of multi-valent ions on capacitive water desalination by soft electrodes

S. Ahualli, M.M. Fernández, G.R. Iglesias, M.L. Jiménez, A.V. Delgado

15.00 21 Water desalination with wires: transport modeling for ideal and leaky membranes

T.M. Mubita, J.E. Dykstra, S. Porada, A. van der Wal

15.20–15.40 Coffee break

13 Modelling

15.40 117 Exploiting the physics of exclusion zone formation for water purification

H. Wyss

16.00 69 Electrokinetic energy conversion with membranes: phenomenological vs. microscopic modelling and the effect of hydrodynamic slip

J. Catalano

16.20 12 Hybrid modelling of membrane bioreactors integrating 2D fluorescence data

C. Galinha, J. Crespo

16.40 93 Ion transport in desalination membranes: recent insights and emerging challenges

V. Freger, N. Fridman-Bishop, V. Kolev

TUESDAY AFTERNOON

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Room B

12 Membrane performance/applications

- 14.00 17** Slit membranes for efficient desalination using graphene
Elisa Y.M. Ang, Teng Yong Ng, K.R. Geethalakshmi, Jingjie Yeo, Zishun Liu
- 14.20 34** Performance evaluation of RO-membranes using Design of Experiment (DoE) and multi-ion mixed feed
U. Doelchow, J. Ogier, J. Lipnizki
- 14.40 35** Membranes for sustainable potable water production in remote areas
E. Protasova, R. Nair, T. Bilstad
- 15.00 85** Intensification of polyvinylidene fluoride (PVDF) membrane performance properties by introduction of carbon based nanomaterials in the membrane matrix
R. Khayrullina, C. Tizaoui, P. Williams, C. Spacie

15.20–15.40 Coffee break

14 Membrane filtration / Biofilms

- 15.40 73** MFI, practical experience of a new standard
S. Kuipers, F. Horvath, J.C. Schippers, L. Broens, A. Diepeveen
- 16.00 63** Unravelling the biofilm matrix: Influence of biofilm composition and physical structure on the mechanical properties of membrane biofilms during gravity driven membrane (GDM) filtration
P. Desmond, N. Derlon, E. Morgenroth
- 16.20 9** Impact of sodium hypochlorite on PES/PVP membrane ageing
Y. Hanafi, P. Loulergue, M. Rabiller-Baudry, B. Van der Bruggen, A. Szymczyk

WEDNESDAY MORNING

8 FEBRUARY 2017

Room A

15 Wastewater treatment / Water reuse

- 9.00 **101** A novel energy recovery device/RO test rig targeted to treat and recoup low industrial wastewater flows (SALTGAE)
M. Cairns, L. Fitzsimons, Y. Delaure
- 9.20 **28** Iron, zinc and bacteria removal from industrial wastewater by electrically enhanced membrane bioreactor
M.A.L. Ahmed, S.W. Hasan
- 9.40 **78** Simultaneous removal of fluoride and copper from semiconductor wastewater by electrochemical process
S. Aoudj, N. Drouiche, D. Nibou, A. Dekkar, N. Benhamida

Room B

16 FO / RO / NF / Economics

- 9.00 **106** A novel forward osmosis regeneration method using solar thermal energy for decentralised desalination
A. Abbassi Monjezi, H.B. Mahood, A.N. Campbell
- 9.20 **77** Economic evaluation of different SWRO configuration for high boron concentration seawater
H.K. Abdulrahim, M.A. Darwish
- 9.40 **116** Economic analysis on pressure-retarded osmosis: In the case of the feed solution as treated wastewater
Sung Ho Chae, Jihye Kim, Joon Ha Kim
- 10.00 **5** Supplementing soft water with Mg^{2+} and Ca^{2+} from seawater by an inexpensive dnanofiltration-based method
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