# Program outline

**29 August**

**18:00 Opening reception and registration**

**30 August**

**8:30 – 8:50 Registration**

**8:50 – 9:00 Welcome and Opening Remarks**

**9:00 – 9:40 Plenary lecture** *Chairperson: Morten L. Christensen*

9:00 *Novel electromembrane processes for wastewater treatment and resource recovery*

B. van der Bruggen

**9:40-10:20 Session A** *Chairperson: Morten L. Christensen*

9:40 *Modification of Commercial Reverse Osmosis Membranes for Osmotic Power Generation*

F.B. Yerli, S. Saki, N. Uzal, and N. Ateş

10:00 *Nanocellulose/ionic liquid membranes for CO2 capture*

L. Ansaloni, S. Janakiram, X.Z. Dai, L. Deng, and M. Ahmadi

**10:20 – 10:50 Coffee Break**

**10:50 - 12:10 Session B** *Chairperson: Frank Lipnizki*

10:50 *Evaluation of technologies for the removal of pharmaceuticals from wastewaters*

M. Mänttäri, K. Arola, T. Vornamo, P. Ajo, and M. Kallioinen

11:10 *Surfactant Assisted Alumina Doped Silica Membranes for Water Filtration*

X. Ma, K. Janowska, V. Boffa, and Y. Yue

11:30 *Performance of NF/RO membranes in a combined membrane separation and biological degradation process for treatment of pesticide contaminated drinking water*

M.N. Fini, H.T. Madsen, and J. Muff

11:50 *Concentration of hospital wastewater via forward osmosis using Aquaporin-based Hollow Fiber membranes*

M.S. Camilleri-Rumbau, V. Sanahuja-Embuena, S. Braekevelt, M. Holm Møller, B. Mose Pedersen, U. Nielsen, M. Friis Andersen, and J. Vogel

**12:10-13:00 Lunch**

**13:00-14:20 Session C** *Chairperson:*  *Mika Mänttäri*

13:00 *Recovery of phenolics from sour cherry pomace (Prunus cerasus L.) by ultra and*

*nanofiltration*

M.C. Roda‐Serrat, P.B. Lund, R.B. El‐Houri, and K.V. Christensen

13:20 *Natural phenolic additives from lignin as performance promoters in polyethersulphone (PES) membranes*

M. Kallioinen, M. Esmaeili, T. Virtanen, J. Lahti, I. Anugwom, and M. Mänttäri

13:40 *Increase of the flux during ultrafiltration of an alkaline wheat bran extract*

J. Thuvander, and A.-S. Jönsson

**14:00-14:40 Poster + Coffee Break**

**14:40-14:50 Group photo of participants**

**14:50-15:20 Nordic filtration Society Board Meeting**

**15:20-16:00 Plenary lecture** *Chairperson: Morten L. Christensen*

15:20 *Development of dense inorganic membranes for gas separation*

R. Bredesen

**16:00-16:20 Break**

**16:20-17:00 Session D** *Chairperson: Rune Bredesen*

16:20 *Porous ceramic membranes prepared by low-cost materials for potential microfiltration and ultrafiltration applications*

J. Ha, S. Lee, J. Lee, I. Song, S. Lee, and J. Choi

16:40 *Stable graphene oxide membranes for biofuel dehydration*

A. Suri, L. Calzavarini, and V. Boffa

**18:00 Conference dinner in the Forest of Rold (Bus from First Hotel)**

**31 August**

**9:00-9:40 Plenary lecture** *Chairperson: Bart van der Bruggen*

9:00 *Biomimetic membranes as a technology platform: quo vadis?*

C. Hélix-Nielsen

**9:40-10:40 Session E** *Chairperson: Bart van der Bruggen*

9:40 In-situ *investigation of the cohesive strength of membrane surface fouling in crossflow microfiltration*

M. Zhou, H. Sandström, and T. Mattsson

10:20 *The fouling and cleaning challenge in the food industry*

F. Lipnizki, and A.-S. Jönsson

10:40 *Preparation of antifouling ultrafiltration membranes by addition of polyelectrolytes to the coagulation bath*

T. Plisko, A. Bildyukevich, F. Lipnizki, and G. Rudolph

**10:40 – 11:10 Coffee Break**

**10:10 - 12:30 Session F** *Chairperson: Claus Hélix-Nielsen*

11:10 *Membrane pervaporation to regenerate glycols in subsea natural gas dehydration*

L. Ansaloni, M. Ahmadi, K. Dalane, and L. Deng

11:30 *Designing of hollow fiber and flat sheet membranes modules for membrane distillation applications*.

A. Ali, and E. Drioli

11:50 *Functionalized ABA copolymer polymersomes functionally reconstituting Aquaporin Z water channel proteins for biomimetic membranes*

R. Górecki, K. Trzaskuś, and C. Hélix-Nielsen

12:10 *Membrane module spacer performance in spiral wound modules: a computational fluid dynamics study*

F.J. Aschmoneit, E. Vanino, and C. Hélix-Nielsen

**12:30-13:30 Lunch**

**13:30-14:50 Session G** *Chairperson: Ann-Sofi Jönsson*

13:30 *Biomimetic aquaporin forward osmosis membrane for removal of frequently found pesticides from danish groundwater network*

M.N. Fini, H.T. Madsen, and J. Muff

13:50 *Influence of electrical conductivity on the electroosmotic dewatering of cellulose nanocrystals*

J. Wetterling, T. Mattsson, and H. Theliander

14:10 *Estimation of specific cake resistance of iron concentrates using methods that require small amount of test material*

D. Safonov, T. Kinnarinen, and A. Häkkinen

14:30*Reducing water consumption to half by 2025, a Grundfos sustainability goal*

V. Yangali-Quintanilla, W. Bouwens, K. Christensen, M. Knudsen, and P. Davidsen

**15:00 Closing symposium**