

Program outline

Venue: 10:an Conference Room, Department of Chemistry and Chemical Engineering
Kemigården 4, SE-412 96 Göteborg, Sweden

16 August

9:00 – 9:50 Registration and Coffee

9:50 – 10:00 Welcome and Opening Remarks

10:00 – 11:00 Session A

Chairperson: Tuve Mattsson

10:00 *Purification of galactoglucomannan from steam pretreated softwood using membrane filtration*
Presenting author: Mikael Sjölin
Svante Herrlin, Basel Al-Rudainy, Henrik Stålbrand, Frank Lipnizki, Ola Wallberg
Lund University

10:20 *Exploring electro-assisted filtration of microfibrillated cellulose*
Presenting author: A. Lidén
P. Naidjonoka, N.K. Karna, H. Theliander
Chalmers University

10:40 *PtX by Bipolar Membrane Electrodialysis for Green Production of Acid and Base from Seawater*
Presenting authors: Frederick Munk S Christensen and Zongsu Wei
Aarhus University

11:00 – 11:30 Coffee Break

11:30 – 12:30 Session B

Chairperson: Frank Lipnizki

11:30 *Improving polymer of intrinsic microporosity performance for gas separation by incorporating the Pseudo-Ionic liquid structures*
Presenting author: Naser Tavajohi
Umeå University

11:50 *In situ monitoring of membrane fouling characteristics using fluid dynamic gauging*
Presenting author: Kenneth Arandia
N.K. Karna, T. Mattsson, H. Theliander
Chalmers University

12:10 *Breaking limitations of conventional 3D printing for membrane synthesis*
Presenting author: Bastian Kirkebæk
Aamer Ali, Cejna Quist-Jensen
Aalborg University

12:30 – 13:20 Lunch

13:20 – 14:20 Session C

Chairperson: Hans Theliander

13:20 *Evaluation of Blaine's air permeability method to predict the filtration properties of various materials*
Presenting author: Antti Häkkinen
Dmitry Safonov, Teemu Kinnarinen
Lappeenranta-Lahti University of Technology LUT

13:40 *Membrane fabrication by using a green solvent*
Presenting author: Norafiqah Ismail
Naser Tavajohi
Umeå University

14:00 *Electrospun nanofiber membranes for desalination and nuclear waste decontamination*
Presenting author: Mohamed Essalhi
Naser Tavajohi
Umeå University

14:20 – 14:50 Coffee Break

14:50 – 16:20 Session D

Chairperson: Mads Koustrup Jørgensen

14:50 *The Wonderful World of Correlative X-Ray Tomographic Imaging of Polymeric Membranes*
Presenting author: Gregor Rudolph-Schöpping
Emanuel Larsson, Stephen Hall, Torben Nilsson Pingel, Pablo Villanueva-Perez, Frank Lipnizki
Lund University, RISE Research Institutes of Sweden

15:20 *Implementation of membrane technology in industrial biorefineries: Potential of membrane bioreactors and membrane modification for improved selectivity*
Presenting author: Ziran Su
DTU

15:40 *Direct Membrane Filtration for municipal wastewater treatment: Developing a membrane process*
Presenting author: Frank Lipnizki
Tobias Hey
Lund University

16:30 – 18:00 Nordic filtration Society Board Meeting

17 August

9:00 – 10:00 Session E *Chairperson: Morten Lykkegaard Christensen*

9:00 Treatment of wash water from road tunnels
Presenting author: Thomas Meyn
Hanne Vistnes, Nadine Sossalla
NTNU

9:20 *Salinity gradient power potential in Sweden*
Presenting author: Ahmet Halil Avci
Mohamed Essalhi, Naser Tavajohi, Frank Lipnizki
Lund University, Umeå University

9:40 *Cyclodextrin complexation for efficient removal of micropollutants in membrane filtration*
Presenting author: Mads Koustrup Jørgensen
Dennis Deemter, Lars Wagner Ståde, Luna Gade Sørensen, Lærke Nørgaard Madsen, Isabel Oller, Sixto Malato, Thorbjørn Terndrup Nielsen, Vittorio Boffa
Aalborg University

10:00 – 10:20 Coffee Break

10:20 – 11:00 Session F *Chairperson: Antti Häkkinen*

10:20 Temperature decline of filter cakes during the dewatering stage in vacuum filters
Presenting author: Teemu Kinnarinen
Antti Häkkinen
Lappeenranta-Lahti University of Technology LUT

10:40 *Water structure near the interfaces may affect filtration: A molecular insight*
Presenting author: Nabin Kumar Karna
Chalmers University

11:00 – 12:00 Lab tour

12:00 – 13:00 Closing remarks and Lunch