



34th EMS Summer School 2017

Membranes in Biorefineries

June 26 - 30, 2017

April 20, 2017 - Registration, payment and room booking deadline

May 27, 2017 - Poster abstract deadline

The 34th European Membrane Society Summer School focusing on “Membranes in Biorefineries” will be held in Lund and at Bäckaskog Castle in the South of Sweden June 26 - 30, 2017.



This summer school will bring together leading European scientists and industrialists in the areas of membrane technology and biorefineries with students and young researchers. In an informal and creative atmosphere this summer school will cover all main aspects of membrane processes and how they can be used in biorefineries. This summer school is set to provide an inspiring and solid foundation for future cross-border cooperation about membrane processes and their utilisation in the production of platform chemicals and high-value added materials from biomass.

The target group for this summer school are students and researchers interested in integration of membrane processes in the concept of biorefineries.

Scientific programme

The core of the scientific programme will consist of tutorial lectures from both academic and industrial European experts within the fields of biorefineries and membrane processes. The aim of the summer school will be further supported by poster presentations to provide the participants the opportunity to present their own research and assignments to be solved jointly by the participants to stimulate discussion. Further, there is a field trip to the Stora Enso Nymölla mill ultrafiltration plant which is the largest tubular membrane plant of its kind in the world.

Topics

- Concepts and products of biorefineries based on wood, agricultural crops and algae
- Membranes processes in biorefineries
- Applications of membrane process in the product and water loop of biorefineries
- Membranes and modules used in biorefineries
- Fouling, cleaning and economics of membrane processes for biorefineries

Organizing Committee

Chaired by **Ann-Sofi Jönsson** (Sweden), Frank Lipnizki (Sweden) and Cristiana Boi (EMS)

For more information and registration

Webpage: <https://www.lth.se/membranportalen/english/ems-summer-school-2017/>

Excursion to Stora Enso Nymölla pulp and paper mill

Nymölla Mill – part of the Stora Enso Group's Stora Enso Paper division – is a modern pulp and fine papers mill producing uncoated fine papers. Bleach plant effluent is treated in an ultrafiltration plant which has a processing capacity of 400 m³ bleach plant effluent per hour.



The ultrafiltration plant at Nymölla mill is the largest of its kind in the world and has been in operation since 1995. The total membrane area is 4,800 m² (2,900 m² on the softwood line and 1,900 m² on the hardwood line).

Venue



The venue is the historical Bäckaskog Castle in southern Sweden. The Castle is located 15 km from Kristianstad, on the isthmus between Ivösjön and Oppmannasjön. Bäckaskog Castle was originally a monastery built in the 13th century and then transformed into a castle in the 16th century.

Accommodation

The hotel rooms are in the castle building and in an annex in the park, close to the castle. All rooms have wireless internet.

Hotel full board (4 nights) to be paid individually by each participant to Bäckaskog Castle:

- **5847 SEK** in double rooms in one of the annexes located less than 100 meter from the castle
- **7047 SEK** in single rooms in one of the annexes located less than 100 meter from the castle
- **9447 SEK** in single rooms at the castle

Registration fees

Students (undergraduate and graduate students) pay no fee, only for accommodation

Early stage researchers (postdoc fellows, or equivalent, within 3 years from PhD graduation):

- 1500 SEK for EMS members
- 1800 SEK for non EMS members

Researchers and participants from industry:

- 6500 SEK for EMS members
- 6800 SEK for non EMS members

Travel

The Summer School starts and ends in Lund, Sweden. Getting to Lund takes about 60 minutes from Copenhagen International Airport by train. Please note that there are passport controls when entering the train and when entering Sweden. Shuttle bus transportation from/to Lund and Bäckaskog Castle is provided on June 26 and June 30.
