The Department of Chemistry and Bioscience (Aalborg University), Eurofins VBM Laboratoriet, the European Research and Innovation Network MAT4TREAT, Project Ô, and the European Training Network AQUAlity are pleased to invite you to the

International Summer School on

"Micropollutant Analysis and Abatement"

(Including the Seminar on Advanced Water Purification Technologies)

Keywords: certified analysis, toxicity, membrane filtration, advanced oxidation, hybrid processes

A fee of **250 €** will be applied to ESRs in AQUAlity to support travel expenses of one representative for each partner company and the symposium catering

Lectures from academic and industrial researchers will cover a comprehensive path from the fundamental knowledge to the most advanced technologies for micropollutants analysis and abatement.

Students will have the opportunity to grow their research network and their communication skills during group exercises.

Registration

The number of participants is limited to 30. You can register by sending an e-mail to vb@bio.aau.dk. Participants will obtain a certificate for 3 ECTS.

You might decide to attend only the seminar on Advanced Water Purification Technologies on August 29, 2018.

Venue

Lectures will take place at Aalborg University; CREATE Building, Rendsburggade 14, room 3.563, 9000 Aalborg.

Convenient accommodations are:

- HOTEL CABINN at Fjordgade 20, 9000 Aalborg
- FIRST HOTEL at Rendsburggade 5, 9000 Aalborg
- HOTEL AALBORG at Østerbro 27, 9000 Aalborg

Please notice, Aalborg University will host the **17th Nordic Filtration Symposium** on Thursday 30th and Friday 31st August 2018

Summer school programme

August 27, 2018 - Day 1

8:45 *Welcome*

9:00 Certified analysis of micropollutants: method development and validation *VBM Laboratoriet A/S*

10:00 Measuring toxicity of micropollutants *Assoc. Prof. Peter Roslev*

12:00 *Lunch*

13:00 Advanced membrane processes for the removal of micropollutants (part. 1) *Assist. Prof. Mads K. Jørgensen*

15:15 Advanced membrane processes for the removal of micropollutants (part. 2) *Assoc. Prof. Vittorio Boffa*

19:30 *Social dinner*

August 28, 2018 - Day 2

8:45 Ozonation as a polishing step for micropollutant abatement in wastewater *Dr. Peter Tentscher*

11:00 Water purification by electrochemical advanced oxidation processes (Part 1) *Assoc. Prof. Jens Muff*

12:00 *Lunch*

13:00 Group exercises

16:30 Conclusions

August 29, 2018 : Seminar on Advanced Water Purification Technologies

10:30 *Welcome*

10:40 Solar Advanced Technologies for the treatment and reuse of industrial and urban wastewater
Isabel Oller Alberola
(Plataforma Solar de Almería)

11:20 Advanced oxidation processes for the abatement of micropollutants
Jens Muff (AAU)

11:40 Micropollutant abatement with ozone: model compound approach for phenolic substances
Peter Tentscher (AAU)

12:00 *Lunch*

13:00 Biological polishing of treated wastewater
Jeppe L. Nielsen (AAU)

13:20 Bioanalytical tools for assessment of drinking water treatment
Peter Roslev (AAU)

13:40 SolarSack: a bag that provides safe water in developing countries
Anders A. Løcke (SolarSack IVS)

14:00 Project Ô: Modular treatment technologies enabling the integrated and symbiotic use of water on a small scale
Alessandro Cedrino (IRIS s.r.l.)

14:20 *Break*

14:40 Innovative methods for control of membrane filtration
Mads K. Jørgensen (AAU)

15:00 UV-Cured solvent stable polymeric membranes for ultrafiltration
Marco Sangermano (Politecnico di Torino)

15:20 Novel membrane technology for resource recovery from waste streams
Cejna A. Quist-Jensen (AAU)

15:40 MAT4TREAT: Enhancing water quality by developing novel materials for organic pollutant removal in tertiary water treatments
Giuliana Magnacca (Turin University)

16:20 *Conclusions*