

27-29 August 2018

The Department of Chemistry and Bioscience (Aalborg University), VBM Laboratoriet A/S, the European Research and Innovation Network MAT4TREAT, 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

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, 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
- 17:30 Group exercises
- 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 Water purification by electrochemical advanced oxidation processes (Part 2)
Assoc. Prof. Jens Muff
- 14:15 Hybrid AOP-membrane processes
Assist. Prof. Henrik T. Madsen
- 16:30 Group exercises

August 29, 2018 : Seminar on Advanced Water Purification Technologies

- 10:30 *Welcome*
- 10:35 Bioanalytical tools for assessment of drinking water treatment
Assoc. Prof. Peter Roslev
- 11:00 Biological polishing of treated wastewater
Prof. Jeppe L. Nielsen
- 11:25 SolarSack: a bag that provides safe water in developing countries
Anders A. Løcke, funder of SolarSack IVS
- 11:50 *Lunch*
- 12:30 Novel membrane technology for resource recovery from waste streams
Assist. Prof. Cejna A. Quist-Jensen
- 12:55 Innovative methods for control of membrane filtration
Assist. Prof. Mads K. Jørgensen
- 13:20 Towards large-scale fabrication of durable graphene oxide membranes
Dr. Anil Suri
- 13:45 Advanced oxidation processes for the abatement of micropollutants
Assoc. Prof. Jens Muff
- 14:10 *Coffee break*
- 14:30 Micropollutant abatement with ozone: model compound approach for phenolic substances
Dr. Peter Tentscher
- 14:55 Synergies in the combination of membrane filtration and oxidation processes
Assist. Prof. Henrik T. Madsen
- 15:20 MAT4TREAT: Enhancing water quality by developing novel materials for organic pollutant removal in tertiary water treatments
Assoc. Prof. Giuliana Magnacca (Turin University, Italy)
- 16:00 *Conclusions*