

PhD course and workshop:

MICROBIAL ECOLOGY IN WASTEWATER TREATMENT

October 4-7, 2010

Aalborg University, Denmark

The course covers many important aspects of microbial ecology in wastewater treatment processes, primarily activated sludge systems and use of membrane bioreactors. It includes population dynamics of microbial populations involved in nitrification, denitrification, biological phosphate removal, degradation of environmental pollutants, and microorganisms involved in foaming, bulking membrane fouling. An overview of state-of-the-art methods to investigate activated sludge microbiology is given (molecular, isotopic and biochemical methods). Included is also ecosystem theory, conceptual and mathematical models. The course includes lectures, group exercises/discussions and student presentations. The two last days will take place as a workshop with participation of several international renowned scientists. The focus will be hot topics in microbial ecology such as how to characterize the microbial populations and their dynamics, ecosystem modeling and ecosystem theories.

Organizer: Prof. Per Halkjær Nielsen, Phone (45) 9940 8503, E-mail: phn@bio.aau.dk

Lecturers: Per Halkjær Nielsen, Jeppe Lund Nielsen, Caroline Kragelund, all Aalborg University

Workshop speakers: Tom Curtis, UK, Mark van Loosdrecht, The Netherland; Holger Daims, Austria; Adrian Oehmen and Gilda Carvalho, Portugal; Nico Boon, Belgium and several others.

Location: Aalborg University, Dept. of Biotechnology, Chemistry and Environmental Engineering, Sohngaardsholmsvej 49, Aalborg (www.bio.aau.dk). For accommodation, please contact Caroline Kragelund, ckr@bio.aau.dk.

Fee: There is no fee for Danish PhD students. For other participating PhD students there is a fee of 100 Euro. An invoice will be send after registration.

Registration and Deadline:

Faculties of Engineering, Science and Medicine, Aalborg University
Niels Jernes Vej 10, DK-9220 Aalborg East, Denmark, Phone (45) 9940 9638,
http://adm.aau.dk/fak-tekn/phd/kurser/s8_5.html
Deadline September 4, limited number.