

Ph.D. course on Sewer Processes

Modeling of sewer microbial and chemical processes

The course provides a basis for up-to-date knowledge and modeling of sewer microbial and chemical processes and shows how this understanding can be applied for design, operation, and maintenance of wastewater collection systems. A central focus of the course is on predicting critical impacts and controlling adverse effects of hydrogen sulfide and other toxic/noxious gases.

The course:

- Highlights the importance of aerobic, anoxic, and anaerobic processes
- Present new modeling tools for the design and operation of sewer networks
- Details the WATS sewer process model

The course will introduce experimental methods to quantify wastewater quality in terms of biodegradability and chemical composition. During the course, the participants will get hands-on experience with setting up numerical sewer processes models and with designing experiments for determination of central model parameters.

Registration is free. The number of seats is limited to 20.

The course is supported by the Horizon 2020 project Co-UDLABS (Building Collaborative Urban Drainage research lab communities).

For more details contact Asbjørn Haaning Nielsen: ahn@build.aau.dk

Organizer: Asbjørn Haaning Nielsen & Jes Vollertsen

Time: September 18 – 22, 2023

Venue: AAU BUILD, Thomas Manns Vej 23, 9220 Aalborg, Denmark

ECTS: 5