

Sewer Processes Workshop

Date: 27. August 2019

Time: 9:00 – 12:00

Description:

Sewer Process Modelling has developed significantly in recent years. Today, several - both academic and commercial - models for simulating in-sewer processes exist. The developments have primarily been related to modelling of sulfide and associated problems in terms of odor and corrosion. In addition, methane formation in sewer systems has come into focus in a number of studies as well. The objective of this workshop will be to share and discuss information on the most recent advances of sewer process modeling and their applications to real-world use.

The workshop is will address the following topics:

State-of-the-art of sewer process modelling

Examples of real-world model application

Future research needs

9:00 – 9:15	The history of sewer process modelling – the journey from the sulfide risk model by Pomeroy and Bowlus (1946) to modern conceptual sewer process models
9:15 – 9:30	What makes a conceptual sewer process model tick – the building blocks of sewer process models (biological processes, chemical processes, physiochemical process, liquid and gas hydraulics)
9:30 – 9:45	How to build your own sewer process model – the math of the game
9:45 – 10:00	Break
10:00 – 10:20	Example 1 on real-world model applications – Modelling the sewers of San Francisco
10:20 – 10:40	Example 2 on real-world model applications – Intercepting industrial wastewater
10:40 – 11:00	Example 3 on real-world model applications – TBD
11:00 – 11:10	How the organizers see the future research needs and the needs of the industry for sewer process modelling – an introduction for discussion
11:10 – 11:40	Discussion in groups on the how the participant see the future research needs and the needs of the industry for sewer process modelling
11:40-12:00	Summarizing in research and commercial needs in plenum