

SPN9 Workshop Proposal

Sewer sediments: sampling, characterization and modelling

Sediments are a major concern to understand, predict and optimize sewer systems. While hydraulics in sewers is considered fairly well understood, modelled and can therefore be predicted, sediments are often considered simplistically.

It is still challenging to obtain representative and reproducible samples, as the sampling methodology has often to be adapted to the reality of the sampling location. While lab total suspended solids (TSS) measurements have been standardized for a long time, other sediment characterization methods still need to be discussed and improved for a more general utilization. Furthermore, characterization methods are often driven by modelling intention which will therefore be integrated in this discussion.

This workshop will focus on the behaviour of TSS in sewers. Only physical processes will be addressed (transport, settling, resuspension, consolidation, flocculation, ...), thus excluding bio-chemical processes (e.g. biofilms, in-sediment reactions, ...). Out of scope as well are catchment run-off aspects, and special structures such as retention tanks, overflow treatment equipment, ...

The 3h-workshop is organised around three main axes:

- Sampling
(30 min including a 10 min discussion starter presentation)
- Characterization
(90 min including 2x10 min discussion starter presentations)
- Modelling
(60 min including 2x10 min discussion starter presentations)

Depending on the number of participants, breakout sessions can be organized to allow more in-depth discussions on particular topics and ensure enough space for everyone's experience to be shared.

Workshop contributors:

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