Mathematical-Ecological Model for the Evolution of Sand Filters (MEMES-F)

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Abstract

In this seminar we will look at the mathematical modelling of an ecological system present in a slow sand filter (SSF), a water purification system used in the treatment of raw water. From the deduction of a mathematical model from physical balance laws and the incorporation of ecological interactions within the microbial community, we will learn the wonders of what SSFs and their dirty blankets can do for you.