

Kutse seminarile:

Understanding nitrate pollution in groundwater and surface water systems: can environmental tracers help?

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Koht: TTÜ linnak ruum GEO 122, Ehitajate tee 5, Tallinn

Abstract

The presentation will focus on the role of environmental tracers (tritium, $\delta^2\text{H}_2\text{O}$, $\delta\text{H}_2^{18}\text{O}$, $\delta^{15}\text{NO}_3$, $\delta\text{N}^{18}\text{O}_3$, $\delta\text{N}^{17}\text{O}_3$, $\delta^{11}\text{B}$, dissolved N_2 , Ar, Ne) in a comprehensive assessment of nitrate pollution in phreatic, porous-fissured karstic aquifer supplying drinking water to the city of Czestochowa, southern Poland, and its interaction with the surface water system (river). Also, the role of tritium in calibration of numerical flow and transport model of the aquifer will be highlighted. First results of the usage of tritium-calibrated flow and transport model to catchment-scale simulation of nitrate migration will be presented and discussed.



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