



## **Early Concepts of Groundwater Flow – Contributions of Oscar Smreker**

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Groundwater flow theory started with Henry Darcy (1803-1858) and Jules Dupit (1804–1866) contributions. Later several engineers tried to mathematically describe groundwater flow toward the well and group of wells. One of them was Oskar Smreker (1854–1935) hydraulic engineer born in the vicinity of the Celje city - today Slovenia. During his long and successful life, he has designed and built many waterworks based mainly on the groundwater abstraction all over the Europe and Near East. He was also very prolific writer; he has published many papers related to groundwater flow and construction of waterworks. In the scientific literature he has been known as one of the first authors considering nonlinear theory of water flow through the porous media. After him equation that relates gradient and discharge of groundwater is often named which is today with some modification known as Dupit Forcheimer equation. Paper describes his biography and analyses his scientific contributions to groundwater hydraulics.