

SÉRIE DE CONFÉRENCES EN HYDROGÉOLOGIE

Quand :

jeudi, 26 avril 2018

12h15–13h15

**«Temperature-depth profiles to
characterise hydrogeological systems»**

AVEC · Dr. Victor Bense · Wageningen University (Pays-Bas)

Résumé :

Measurements of subsurface temperature conditions have the potential to give quantitative insight into a plethora of geological, climatological and hydrogeological processes. For depths larger than a few meters, boreholes are accessed to obtain temperature-depth profiles that reach up to several kilometers. However, unraveling the relative contribution of the suite of processes that impact the subsurface temperature regime remains a serious challenge. This talk will focus on understanding the interaction between groundwater flow and the ongoing impacts of ground surface warming both as a result of a warming atmosphere as well as urbanisation. Examples will be shown of how temperature-depth data that are affected by surface warming can efficiently be used to assess groundwater recharge conditions on a regional scale, and locally in the vicinity of groundwater abstraction sites. Strategies will be discussed to interpret temperature data for groundwater flow that are impacted by surface warming.

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