

SÉRIE DE CONFÉRENCES EN HYDROGÉOLOGIE

Quand :
mardi, 5 décembre 2017
12h15–13h15

«Agricultural interactions with groundwater quality in southwestern Ontario»

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Résumé :

Groundwater is a vital resource for rural water supply, for farm use and for residents with private wells. It is recognized that rural groundwater quality has been poor in Canada, often attributed to agricultural activities. It is essential that we are aware of potential impacts of various land applied chemicals, including nutrients and pesticides, on groundwater. Wells that supply an estimated 400,000 rural Canadians have nitrate concentrations above the Canadian Drinking Water Guideline, for example. The fate and transport of certain insecticides, such as neonicotinoids, are not well understood in an Ontario context in a variety of environmental compartments including groundwater. This presentation will focus on recent field-based hydrogeological research in southwestern Ontario about: 1) nitrate transport, including continuous in situ monitoring using a novel approach; and 2) the presence and fate of neonicotinoids in groundwater. The results are relevant for provincial and local groundwater managers, and citizens who depend on groundwater sources for potable supply and agricultural production

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