

SÉRIE DE CONFÉRENCES EN HYDROGÉOLOGIE

Quand :
mercredi, 30 novembre 2016
12h15–13h15

« Application of environmental isotopes in organic contaminants studies in groundwater »

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Résumé :

Environmental isotopes have been used in hydrogeology for decades to address a range of issues such as evaluation of recharge areas, determination of groundwater residence time and evaluation of surface water-groundwater interactions. The development of new analytical methods in the last decade has led to a fast expansion of the application of isotopes in hydrogeology. In particular, the introduction of techniques that make it possible to measure isotope ratios of individual compounds (CSIA) at low concentrations have open new exciting possibilities for the use of isotopes in contaminant hydrogeology. Isotopes can be used to differentiate between different sources of contamination or to assess biotic and abiotic transformation processes associated with natural attenuation or engineered groundwater remediation techniques. This presentation will focus on the rationale of the application of CSIA in Contaminant Hydrology and case studies will be presented to illustrate the use of CSIA to address questions as sources of contaminants (fingerprinting), the role of natural attenuation in contaminant plumes and for evaluation of the performance of remediation technologies.

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