
[JJ] Evening Poster | A (Atmospheric and Hydrospheric Sciences) | A-HW Hydrology & Water Environment

[A-HW26]Water Environment and Geology in Urban Areas

convener:Takeshi Hayashi(Faculty of Education and Human Studies, Akita University), Kei Nishida(Interdisciplinary Centre for River Basin Environment, Interdisciplinary Graduate School, University of Yamanashi), Hiroaki SUZUKI(日本工営株式会社 中央研究所, 共同)

Wed. May 23, 2018 5:15 PM - 6:30 PM Poster Hall (International Exhibition Hall7, Makuhari Messe)

The scope of this session is to create an interdisciplinary forum on the most recent advances in water environment and environmental geology research in urban areas. Various kinds of studies concerning environmental issues on water and geology in urban areas (e.g. water balance, water cycle, water resource development and management, inundations, hydrogeology, pollution and remediation, geohazard, basic law on the water cycle) are welcome from academia, industry, and government as well as wider geographic diversity.

[AHW26-P02]Role of groundwater seepage in maintaining low flows in a concrete-lined urban river - A case study in Nomi-gawa river, Ohta Ward, Tokyo, Japan -

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Keywords:Tokyo metropolitan area, concrete-lined urban river, maintenance of low river flow, groundwater seepage

Role of groundwater seepage in maintaining low flows in a concrete-lined urban river was studied in Nomi-gawa river, Ohta Ward, Tokyo, Japan. Despite concrete-lining side walls and river bed, groundwater seeps out through gaps of concrete walls and discharge pipes to make a contribution for the formation of river flows. On the basis of electric conductivity, it was made clear that this kind of groundwater seepage accounts for in the range between 10% (20 Jan., 2018) and 35% (26 Oct., 2015) of low flows in Nomi-gawa river.