Vadose Zone Journal

Frontiers in Hydropedology: Interdisciplinary Research from Soil Architecture to the Critical Zone

Guest Editors:

Xiaoyan Li, Beijing Normal University, China, xyli@bnu.edu.cn

Henry Lin, Pennsylvania State University, USA, henrylin@psu.edu

Horst H. Gerke, Leibniz Centre for Agricultural Landscape Research, Germany, hgerke@zalf.de

Hydropedology is an interdisciplinary science of soil science and hydrology that studies interactive pedologic and hydrologic processes and properties in the Earth's Critical Zone. Considerable synergies are expected through bridging pedology with soil physics, hydrology, and other related bio- and geo-sciences to enhance the holistic understanding of the landscape–soil–water–ecosystem relationship across space and time.

This special issue will be a collection of selected papers presented at the 3rd International Conference on Hydropedology held in Beijing, Aug. 16–19, 2016. The special issue focuses on several frontiers of hydropedology and Critical Zone science, including soil architecture and preferential flow, soil moisture and hillslope hydrology, hydrologic flux–soil structure interactions at different scales, the soil biophysical and biochemical complex, and Critical Zone science and observatory. Contributions on coupling hydropedology with ecohydrology or biogeochemistry are also welcome.

The guest editors will evaluate the manuscripts right after submission and the authors will be immediately informed if the manuscript meets the spirit of hydropedology or if we recommend that it be submitted as a regular paper to VZJ if it does not meet the scope of hydropedology.

Deadline for submission of papers: 15 May 2017.