Session Proposal for Fall 2011 American Geophysical Union Meeting, San Francisco, CA

Environmental Vadose Zone Hydrology

The vadose zone serves as a vital link and buffer between the land surface-atmosphere and groundwater, yet it contains numerous complex processes that are the focus of research from a broad spectrum of fields. Presentations are invited on a broad range of topics in environmental vadose zone hydrology, including field investigations, laboratory studies, and modeling analyses. Topics may include (i) unsaturated and multiphase flow and transport, (ii) coupled processes, (iii) effects of heterogeneity including preferential flow, (iv) soil water dynamics, (v) plant-soil interactions, (vi) biogeochemical and colloidal matter processes, (vii) measurement techniques and monitoring of vadose zone systems, and (viii) assessment of prediction uncertainty.

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