

## ***Interactive comment on “Technical Note: The use of an interrupted-flow centrifugation method to characterise preferential flow in low permeability media” by R. A. Crane et al.***

**Anonymous Referee #1**

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I am not sure of the usefulness of the method. Curve fitting numerical solutions of 2 PDE's with 3 available parameters is far from trivial and nothing is given to really help the user in doing it. My suggestion is that since the method would be used in practice only if curve fitting is easy and since they fit only the rising limb of the breakthrough curve it should not be too difficult to provide a good analytical approximation. Not only this would make the method useful it would also show the reader the physical influence of the parameters. As is I really learned very little physically.

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Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 12, 67, 2015.