Hydrol. Earth Syst. Sci. Discuss., doi:10.5194/hess-2016-643-RC1, 2017 © Author(s) 2017. CC-BY 3.0 License.



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Interactive comment

Interactive comment on "Technical note: An experimental setup to measure latent and sensible heat fluxes from (artificial) plant leaves" by Stanislaus J. Schymanski et al.

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Received and published: 14 February 2017

This is the first time that I have seen an experimental setup that aims at determining all the components of the energy and the water balance of a leaf in a closed system where all parameters can be manipulated. As the authors indicate, the setup is not yet perfect in closing the energy balance and in preventing radiation to be reflected, but it is a great start. Of course we look forward to experiments with living leafs.

The authors wet our appetite by mentioning that their experiment led to a revision of the Penman Monteith equation, or actually a flaw in the P-M equation and referred to the paper by Schymanski and Or (2016). I think that the paper would benefit from not just providing the reference to this paper, but also in a few sentences mention the crux

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of this flaw. That would certainly make the paper more attractive.

Minor comments: I.202: bracket missing

Figure 9: If 9b is based on 1m/s and 9a on 1.2-1.34 kPa, than the points on the left and the right should correspond for these values. This does not appear to be the case for the Net energy flux and the Leaf-air temperature and the graphs below that. Did I miss something?

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., doi:10.5194/hess-2016-643, 2017.

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