

***Interactive comment on “Laboratory studies of the chemical composition and cloud condensation nuclei (CCN) activity of secondary organic aerosol (SOA) and oxidized primary organic aerosol (OPOA)” by A. T. Lambe et al.***

**B. Ervens (Editor)**

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I received another review with some major comments (below). As it was submitted outside of the discussion period, you don't have to address it; however, I think considering these comments might improve the paper. I leave it up to you to address them in the revised manuscript or not.

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My main concerns regarding the paper are:

- (1) The SOA generated in PAM might not be representative of those formed in the
- C5846

atmosphere. I think at least this should be mentioned in the paper.

(2) Lack of the details on the calibration and operation of the CCN counter, the measurements of  $K_{ppa}$ , and how the uncertainties were derived.

(3) I also think it would be very helpful to include direct comparison to previous results (e.g. in Figure 7), and discuss the significance of any differences.

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Interactive comment on Atmos. Chem. Phys. Discuss., 11, 13617, 2011.