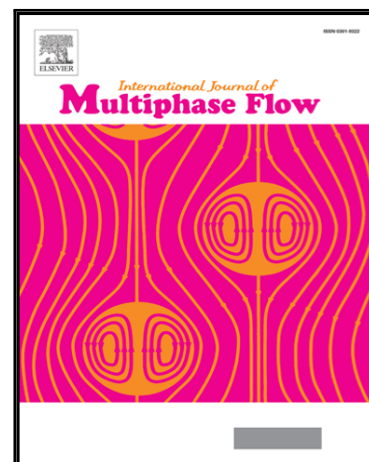


Accepted Manuscript

Study of transient heat transfer and synchronized flow visualizations during sub-cooled flow boiling in a small aspect ratio microchannel

Mrinal Jagirdar, Poh Seng Lee

PII: S0301-9322(15)30156-7
DOI: [10.1016/j.ijmultiphaseflow.2016.04.004](https://doi.org/10.1016/j.ijmultiphaseflow.2016.04.004)
Reference: IJMF 2373



To appear in: *International Journal of Multiphase Flow*

Received date: 20 November 2015
Revised date: 28 March 2016
Accepted date: 3 April 2016

Please cite this article as: Mrinal Jagirdar, Poh Seng Lee, Study of transient heat transfer and synchronized flow visualizations during sub-cooled flow boiling in a small aspect ratio microchannel, *International Journal of Multiphase Flow* (2016), doi: [10.1016/j.ijmultiphaseflow.2016.04.004](https://doi.org/10.1016/j.ijmultiphaseflow.2016.04.004)

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Highlights

- Transient heat transfer coefficient and video-frames are correlated.
- Thin film evaporation mechanism led to peaks in heat transfer coefficient.
- Peak values were influenced by distance of bubble incipience and downstream events.
- Heat transfer coefficient during passage of liquid slugs was relatively lower.

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