

Mélissa Drignon

Ph.D. Advisors: Roger Nielsen and Frank Tepley

B.S. – Earth Science, University of Orléans (France)

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Research Interests:

Experimental Petrology and Volcanology

I am working on plagioclase hosted melt inclusions in PUBs (Plagioclase Ultraphyric Basalts). My aim is to use the CO₂ contents of the melt inclusions to know where the plagioclases crystallized within the crust and have more insights on the genesis of the oceanic crust.

Recent Publications and Abstracts Presented:

Drignon, M.J., Nielsen, R.L., Tepley, F.J. III., Time and temperature dependence of the re-equilibration processes in plagioclase-hosted melt inclusions, AGU Fall 2015 Meeting.

Drignon, M.J., Arbaret, L., Burgisser, A., Komorowsky J-C., Martel, C., Bechon, T., Putra, R., (2014). Transition from Effusive to Explosive Activity during Lava Dome Eruption: The Example of the 2010 of Merapi Volcano (Java, Indonesia)., AGU Fall Meeting 2014, Abstract [V51B-4759](#).

Drignon, M. J., Burgisser, A., Arbaret, L., Komorowsky J-C., Martel, C., Putra, R., (In Prep). Pre-explosive conduit conditions during the 2010 eruption of Merapi volcano (Java, Indonesia). *Geochemistry, Geophysics, Geosystems*.

