

# Dr. Fred Jourdan

Email address	f.jourdan@curtin.edu.au
Telephone Number	+61 (0)8 9266 2412
Fax Number	+61 (08) 9266 3153
Position	Research scientist / $^{40}\text{Ar}/^{39}\text{Ar}$ lab manager – geochronology
Research Interests	$^{40}\text{Ar}/^{39}\text{Ar}$ geochronology, Large igneous provinces, impact craters, hot spots....
Professional Experience	Post-doctorat at the Berkeley Geochronology Center & University of California, Berkeley (2005-2007)
Publications	<p><b>F. Jourdan</b>, U.W. Reimold, P.R. Renne, High-precision <math>^{40}\text{Ar}/^{39}\text{Ar}</math> age of the Janisjarvi impact structure (Russia) (<i>Earth and Planetary Sciences Letters</i>, <i>in press</i>).</p> <p>A. Marzoli, <b>F. Jourdan</b>, M. Chiarada, F. Bussy., The enriched signature of Central Atlantic Magmatic Province basalts; constraints from mineral trace element and isotopic compositions of the Kerforne dike, France. (<i>Submitted to Contribution to Mineralogy and Petrology</i>).</p> <p>W.U. Reimold, A. Wittek and <b>F. Jourdan</b>. Comment on “<math>^{40}\text{Ar}/^{39}\text{Ar}</math> age constraints on low-grade metamorphism and cleavage development in the Transvaal Supergroup (central Kaapvaal craton, South Africa): implications for the tectonic setting of the Bushveld Igneous Complex by Alexandre et al. (2006). <i>South African Journal of Geology</i> 110, P.157-159.</p> <p><b>F. Jourdan</b>, G. Féraud, H. Bertrand, M.K. Watkeys, P.R. Renne. Distinct brief major events in the Karoo large igneous province clarified by new <math>^{40}\text{Ar}/^{39}\text{Ar}</math> ages on the Lesotho basalts. <i>Lithos</i> <b>98</b>, p.195-209, 2007</p> <p><b>F. Jourdan</b>, J.P. Matzel, P.R. Renne, Direct measurement of <math>^{39}\text{Ar}</math> (and <math>^{37}\text{Ar}</math>) recoil ejection during neutron irradiation of sanidine and plagioclase crystals. <i>Geochimica et Cosmochimica Acta</i> 71, p.2791-2808, 2007.</p> <p><b>F. Jourdan</b>, Bertrand, H., Sharer, U., Blichert-Toft, Féraud, G., Kampunzu, A.B., Le Gall, B., Watkeys, M.K., Major-trace element and Sr-Nd-Hf-Pb isotope compositions of the Karoo large igneous province in</p>

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