J. Fluid Mech. (2011), vol. 666, p. 605. © Cambridge University Press 2011 doi:10.1017/S0022112010005598

CORRIGENDUM

Reynolds-number effects and anisotropy in transverse-jet mixing - CORRIGENDUM

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doi:10.1017/S0022112006001224, Published by Cambridge University Press, 5 October 2006

In Shan & Dimotakis (2006), the Schmidt number was incorrectly stated as 2800 on p. 60. The correct value, calculated from the diffusivity of rhodamine-6g given in Xu & Yeung (1997) should be 3570. This also affected values in the right-most column of table 1. The correct table should appear as follows.

Re_j	V_r	Θ/d_j	Re_{Γ}	Re_{λ}	λ_{v}/λ_{p}	$\lambda_{\mathscr{D}}/\lambda_p$
1.0×10^{3}	10	0.30	0.58×10^{3}	32	281	4.7
2.0×10^{3}	10	0.21	1.2×10^{3}	45	167	2.8
5.0×10^{3}	10	0.13	2.9×10^{3}	71	84	1.4
10×10^{3}	10	0.094	5.8×10^{3}	100	50	0.84
20×10^{3}	10	0.067	12×10^{3}	141	30	0.50

TABLE 1. Experimental conditions and imaging resolution of the LIF measurements at $x/d_i = 50$. λ_p is the in-plane pixel resolution for the transverse slices. The momentum thickness, Θ , is computed at the jet exit. The circulation-based (Re_{Γ}) and Taylor (Re_{λ}) Reynolds numbers are computed at $x/d_i = 50$.

We thank Dongjin Kim, Georgia Institute of Technology, for bringing the error to our attention.

REFERENCE

XU, X.-H. & YEUNG, E. S. 1997 Direct measurement of single-molecule diffusion and photo-decomposition in free solution. Science 275, 1106-1109.