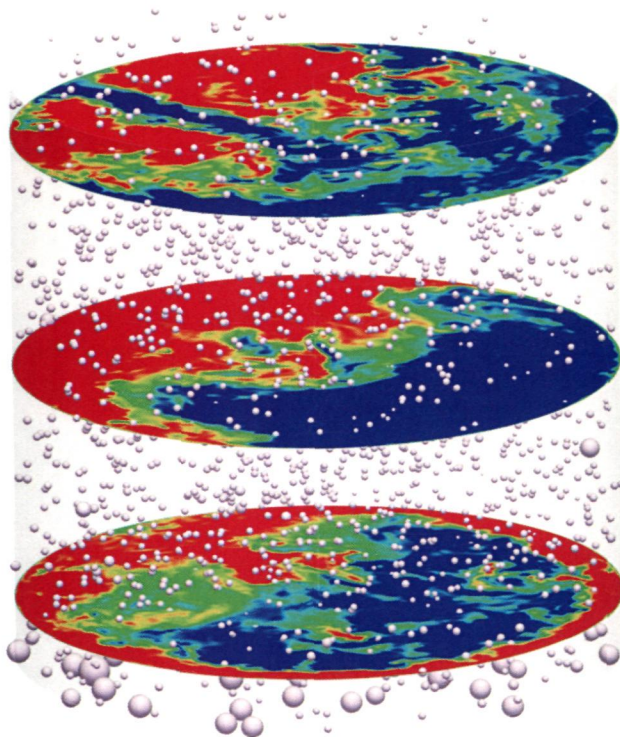


BRIDGE  
UNIVERSITY PRESS

25 April 2014

# Journal of Fluid Mechanics

VOLUME 745



- 1 Bubbling reduces intermittency in turbulent thermal convection  
**R. Lakkaraju, F. Toschi & D. Lohse**
- 25 Spanwise-localized solutions of planar shear flows  
**J. F. Gibson & E. Brand**
- 62 Stochastic modelling of transverse wave instability in a liquid-propellant rocket engine  
**P. P. Popov, A. Sideris & W. A. Sirignano**
- 92 Direct numerical simulation of a turbulent flow in a rotating channel with a sudden expansion  
**E. Lamballais**
- 132 On the laminar–turbulent transition of the rotating-disk flow: the role of absolute instability  
**S. Imayama, P. H. Alfredsson & R. J. Lingwood**
- 164 Crossover between two- and three-dimensional turbulence in spatial mixing layers  
**L. Biancofiore**
- 180 Vortex formation of a finite-span synthetic jet: effect of rectangular orifice geometry  
**T. Van Buren, E. Whalen & M. Amitay**
- 208 Hydraulic falls under a floating ice plate due to submerged obstructions  
**C. Page & E. I. Părău**
- 223 Direct numerical simulations of an inertial wave attractor in linear and nonlinear regimes  
**L. Jouve & G. I. Ogilvie**
- 251 Nonlinear stability of gravitationally unstable, transient, diffusive boundary layers in porous media  
**N. Tilton & A. Riaz**
- 279 Collision statistics of inertial particles in two-dimensional homogeneous isotropic turbulence with an inverse cascade  
**R. Onishi & J. C. Vassilicos**
- 300 Spanwise reflection symmetry breaking and turbulence control: plane Couette flow  
**G. Chagelishvili, G. Khujadze, H. Foysi & M. Oberlack**
- 321 Dispersion in the large-deviation regime. Part 1: shear flows and periodic flows  
**P. H. Haynes & J. Vanneste**
- 351 Dispersion in the large-deviation regime. Part 2. Cellular flow at large Péclet number  
**P. H. Haynes & J. Vanneste**
- 378 Revisiting the mixing-length hypothesis in the outer part of turbulent wall layers: mean flow and wall friction  
**S. Pirozzoli**
- 398 Similarity solution for oblique water entry of an expanding paraboloid  
**G. X. Wu & S. L. Sun**
- 409 Turbidity currents interacting with three-dimensional seafloor topography  
**M. M. Nasr-Azadani & E. Meiburg**
- 444 Global linear stability analysis of falling films with inlet and outlet  
**C. Albert, A. Tezuka & D. Bothe**
- 487 Effects of membrane hardness and scaling analysis for capsules in planar extensional flows  
**P. Dimitrakopoulos**
- 509 Multi-oscillations of a bubble in a compressible liquid near a rigid boundary  
**Q. X. Wang**
- 537 Violent expiratory events: on coughing and sneezing  
**L. Bourouiba, E. Dehandschoewercker & J. W. M. Bush**
- 564 Extreme solitary waves on falling liquid films  
**S. Chakraborty, P.-K. Nguyen, C. Ruyer-Quil & V. Bontozoglou**

Contents continued on inside back cover.

592 Fluid injection into a confined porous layer  
**S. S. Pegler, H. E. Huppert &  
J. A. Neufeld**

621 A fluid-mechanical model of elastocapillary  
coalescence  
**K. Singh, J. R. Lister & D. Vella**

647 Effects of finite-rate chemistry and detailed transport  
on the instability of jet diffusion flames  
**Y. C. See & M. Ihme**

682 Viscous film flow coating the interior of a vertical  
tube. Part 1. Gravity-driven flow  
**R. Camassa, H. R. Ogorosky & J. Olander**

**JFM Rapids (online only)**

R1 Closed-form shock solutions  
**B. M. Johnson**

R2 Creeping axisymmetric plumes with strongly  
temperature-dependent viscosity  
**A. Crosby & J. R. Lister**

S indicates supplementary data or movies available online.