

Nominations are sought for the Batchelor Prize 2012

The Batchelor Prize, sponsored by the Journal of Fluid Mechanics, is presented once every four years at the ICTAM conference, the next occasion being in Beijing in August 2012. The prize winner will be announced late in 2011.

The Prize of \$25,000 is awarded to a single scientist, for outstanding research in fluid dynamics. The research so recognised by the Prize shall normally have been published during the ten-year period prior to the announcement of the award (i.e. during the period 2001–2010). The intention is thus that younger researchers should be as eligible for consideration as those who are more established, and that the work should be of great current interest (representing, for example, an emerging field of application of fluid mechanics, or a significant breakthrough in an established branch of the subject).

The Prize winner will be determined by a small committee whose members are internationally distinguished in fluid mechanics. It is expected that the Prizewinner will deliver a lecture at ICTAM and that this lecture will also be published in the Journal of Fluid Mechanics and be made freely available on the Cambridge Journals website.

The nomination process is open to everyone. If you would like someone to be considered for the Batchelor Prize please nominate them using the procedure outlined below:

1. The nomination should include a brief curriculum vitae of the candidate nominated.
2. A list of his/her publications during the period 2001–2010 with up to 10 of particular distinction being marked by an asterisk (there is no requirement that the research was published in the *Journal of Fluid Mechanics*).
3. A brief (one page) statement of the case for making the award.

To submit a nomination email jfmprize@cambridge.org with the above information.

The deadline for nominations is 30th April 2011.

Conditions concerning the award of the Batchelor Prize:

Self-nominations will NOT be accepted.

All nominations must be in English.

The decision of the Committee shall be final. Previous winners are not eligible.

Editorial office
Journal of Fluid Mechanics

- 1 On the microhydrodynamics of superspreading
C. Maldarelli
- 5 On surfactant-enhanced spreading and superspreading of liquid drops on solid surfaces
G. Karapetsas, R. V. Craster & O. K. Matar
- 38 Buoyancy-driven instabilities of miscible two-layer stratifications in porous media and Hele-Shaw cells
P. M. J. Trevelyan, C. Almarcha & A. De Wit
- 66 The formation and evolution of stratification during transient mixing ventilation
A. S. Kuesters & A. W. Woods
- 85 Steady vortex dipoles with general profile functions
T. R. Albrecht, A. R. Elerat & K. G. Miller
- S 96 Takens–Bogdanov bifurcation of travelling-wave solutions in pipe flow
F. Mellibovsky & B. Eckhardt
- 130 Non-normality and its consequences in active control of thermoacoustic instabilities
R. Kulkarni, K. Balasubramanian & R. I. Sujith
- 150 Particle dispersion by random waves in the rotating Boussinesq system
M. Holmes-Cerfon, O. Bühler & R. Ferrari
- 176 Direct numerical simulation of turbulence in injection-driven three-dimensional cylindrical flows
J. Zhang & T. L. Jackson
- 204 Variations on Kolmogorov flow: turbulent energy dissipation and mean flow profiles
B. Rollin, Y. Dubief & C. R. Doering
- 214 An experimental study of the effect of external turbulence on the decay of a single vortex and a vortex pair
J. P. J. van Jaarsveld, A. P. C. Holten, A. Elsenaar, R. R. Trieling & G. J. F. van Heijst
- 240 Pulsatile jets
R. E. Hewitt & P. W. Duck
- 260 Break-away separation for high turbulence intensity and large Reynolds number
B. Scheichl, A. Kluwick & F. T. Smith
- 301 Vorticity inversion and action-at-a-distance instability in stably stratified shear flow
A. Rabinovich, O. M. Umurhan, N. Harnik, F. Lott & E. Heifetz
- 326 Deformation of a flexible polymer in a random flow with long correlation time
S. Musacchio & D. Vincenzi
- 337 Flow-induced degradation of drag-reducing polymer solutions within a high-Reynolds-number turbulent boundary layer
B. R. Elbing, M. J. Solomon, M. Perlin, D. R. Dowling & S. L. Ceccio
- 365 Cross-independence closure for statistical mechanics of fluid turbulence
T. Tatsumi
- 404 Hamiltonian form of the modified nonlinear Schrödinger equation for gravity waves on arbitrary depth
O. Gramstad & K. Trulsen
- 427 Universal size and shape of viscous capillary jets: application to gas-focused microjets
A. M. Gañán-Calvo, C. Ferrera & J. M. Montanero
- 439 Atwood ratio dependence of Richtmyer–Meshkov flows under reshock conditions using large-eddy simulations
M. Lombardini, D. J. Hill, D. I. Pullin & D. I. Meiron
- 481 On the rheology of a dilute emulsion in a uniform electric field
P. M. Vlahovska
- 504 Water waves over arrays of horizontal cylinders: band gaps and Bragg resonance
C. M. Linton
- 527 Transport of passive scalar in turbulent shear flow under a clean or surfactant-contaminated free surface
H. R. Khakpour, L. Shen & D. K. P. Yue
- 558 Dunes and alternate bars in tidal channels
P. Blondeaux & G. Vittori
- 581 A dynamic multi-scale approach for turbulent inflow boundary conditions in spatially developing flows
G. Araya, L. Castillo, C. Meneveau & K. Jansen

S indicates supplementary data or movies available online.

Cambridge Journals Online

For further information about this journal please go to the journal web site at journals.cambridge.org/flm



Mixed Sources
Product group from well-managed forests and other controlled sources

Cert no. SA-COC-1527
www.fsc.org
© 1996 Forest Stewardship Council

CAMBRIDGE
UNIVERSITY PRESS