

### **Complete List of Publications (George T. Yates):**

1. Yates, George T. and Smotzer, Thomas. 2007. "On the Lag Phase and Initial Decline of Microbial Growth Curves". *Journal of Theoretical Biology*. 244, 511-517.
2. Yates, George T. 2005. "Interdisciplinary Education and Research Experiences for Undergraduates in Mathematics and Biology" In "Advances in Engineering Mechanics – Reflections and Outlooks, In Honor of Theodore Y.-T. Wu", (eds) Allen T. Chwang, Michelle H. Teng and Daniel T. Valentine. World Scientific. p. 474-483.
3. Yates, George T. 2000 Scale Effects in Fish Locomotion. In *Proceedings of the 1st International Symposium on Aqua Bio-Mechanics*. Honolulu, Hawaii, USA. pp. 161-165.
4. Yates, George T. 2000 *Fundamental Geometry and Trigonometry for Practical Application*. Y's Engineering, 48pp.
5. Kazi, Imam H., Chwang, Allen T., and Yates, George T. 1998 Hydrodynamic Interaction Between a Fixed and a Floating Cylinder. *International Journal of Offshore and Polar Engineering*. 8, 46-50.
6. Yates, George T. 1996 Animal Fluid Dynamics. Chapter 24.7. In *Handbook of Fluids and Fluid Machinery*. (eds. J. A. Schetz & A. E. Fuhs). John Wiley & Sons, Inc. Vol. III, pp. 1938-1951.
7. Kazi, Imam H., Chwang, Allen T., and Yates, George T. 1996 Hydrodynamic Interaction Between a Fixed and a Floating Cylinder. In *Proceeding of the 6th International Offshore and Polar Engineering Conference*, Los Angeles, USA, May 26-31, 1996. Vol. III, pp. 315-320.
8. Yates, George T. 1995 Various Boussinesq solitary wave solutions. In *Proceeding of the 5th International Offshore and Polar Engineering Conference*, The Hague, The Netherlands, June 11-16, 1995. pp.70-76.
9. Yates, George T. & Wang, K. H. 1994 Solitary wave scattering by a vertical cylinder: Experimental study. In *Proceeding of the 4th International Offshore and Polar Engineering Conference*, Osaka, Japan, April 10-15, 1994. pp. 118-124.
10. Wang, Keh-Han, Wu, Theodore Y. & Yates, George T. 1992 Three-dimensional scattering of solitary waves by vertical cylinder. *J. Waterway, Port, Coastal, and Ocean Engineering*. 118, 551-566.
11. Yates, George T. 1991 Forced nonlinear dispersive water waves. Report Ship Research Institute, Ministry of Transport, Mitaka, Tokyo, Japan.
12. Yates, George T. & Wu, Theodore Y. 1991 Stability of solitary waves under skewed forcing. In *Mathematical Approaches in Hydrodynamics*. (ed. T. Miloh), pp. 193-206. SIAM.
13. Zhu, Jinlin, Wu, Theodore Y. and Yates, George T. 1990 Internal solitary waves generated by moving disturbances. In *Stratified Flows (3rd International Symposium on Stratified Flows, 3-5 February, 1987, California Institute of Technology, Pasadena, California)* (eds. E.J. List and G.H. Jirka), pp. 74-83. ASCE.

14. Yates, George T. 1990 Some antisymmetric solutions with permanent form of the forced KdV equation. In *Engineering Science, Fluid Dynamics; A Symposium to honor T. Y. Wu.* (ed. G.T. Yates), pp. 119-131. World Scientific, Singapore.
15. Wang, Keh-Han, Wu, Theodore Y. and Yates, George T. 1989 Scattering and diffraction of solitary waves by a vertical cylinder. In *Proc. 17th Symposium on Naval Hydrodynamics* (August 29-September 2, 1988, The Hague). pp. 513-522.
16. Lee, Seung-Joon, Yates, George T. and Wu, Theodore Y. 1989 Experiments and analyses of upstream advancing solitary waves generated by moving disturbances. *J. Fluid Mech.* 199, 569-593.
17. Lee, Seung-Joon, Yates, George T. and Wu, Theodore Y. 1988 A theoretical and experimental study of precursor solitary waves generated by moving disturbances. In *Nonlinear Water Waves (IUTAM Symposium on August 25-28, 1987, Tokyo, Japan)* (eds. K. Horikawa and H. Maruo), pp. 365-372. Springer-Verlag, Berlin.
18. Zhu, Jinlin, Wu, Theodore Y. and Yates, George T. 1987 Upstream internal solitons generated by moving disturbances. In *International Conference on Fluid Mechanics* (July 1-4, 1987. Beijing, China). pp. 517-522.
19. Zhu, Jinlin, Wu, Theodore Y. and Yates, George T. 1987 Generation of internal runaway solitons by moving disturbances. In *Proc. 16th Symposium on Naval Hydrodynamics* . (July 14-15, 1986. University of Calif., Berkeley), (ed. W.C. Webster), pp. 186-197, National Academy Press, Washington, D.C.
20. Yates, George T. 1986 Optimum pitching axis in flapping wing propulsion. *J. Theoretical Biology* 120, 255-276.
21. Yates, George T. 1986 How microorganisms move through water. *American Scientist* 74 (July-August), 358-365.
22. Winet, Howard, Yates, George T., Wu, Theodore Y. and Head, Joe 1983 On the mechanics of mucociliary flows. III. Flow velocity profiles in frog palate mucus. *J. of Applied Physiology* 56 (3), 785-794.
23. Yates, George T. 1983 Hydromechanics of body and caudal fin propulsion. Chapter 6. In *Fish Biomechanics* (eds. P.W. Webb and D. Weihs), pp. 177-213. Praeger Scientific, New York.
24. Winet, Howard, Yates, George T., Wu, Theodore Y. and Head, Joe 1982 On the Mechanics of mucociliary flows. II. A fluorescent tracer method for obtaining flow velocity profiles in mucus. *Cell Motility Suppl.* 1, 29-34, (ed. C.J. Brokaw), Alan R. Liss, Inc.
25. Yates, George T. 1980 Hydrodynamics of slender bodies as related to Salmonoid fishes; swimming energetics and distribution of pressure. ONR "Advisory Workshop on Animal Swimming" (Biohydrodynamics Workshop NR 062-653; 8-9 November 1979, Monterey, California). In *Proceedings of the Advisory Workshop on Animal Swimming*, pp. 20-51.
26. Yates, George T., Wu, Theodore Y., Johnson, Robert T., Cheung, A.T.W. and Frand, Carol L. 1980 A theoretical and experimental study on tracheal muco-ciliary transport. (Invited

paper, the Third International Congress of Biorheology Symposium on Muco-Ciliary Transport, held at University of California, San Diego, August 27-September 1, 1978). *J. of Biorheology* 17, 151-152.

27. Wu, Theodore Y. and Yates, George T. 1978 A comparative mechanophysiological study of fish locomotion with implications for tuna-like swimming mode. In *The Physiological Ecology of Tunas* (eds. Gary D. Sharp and Andrew E. Dizon), pp. 313-337. Academic Press, New York.
28. Wu, Theodore Y. and Yates, George T. 1977 Finite-amplitude unsteady slender-body theory. In *Unsteady Hydrodynamics of Marine Vehicles*, (eds. R.E. Bishop, A.G. Parkinson and W.G. Price), pp. 517-528. Mechanical Engineering Publications Limited, London, New York.
29. Yates, George T. 1977 Finite amplitude unsteady slender body theory and experiments. Ph.D. thesis, California Institute of Technology, Pasadena, California.
30. Yates, George T. 1976 Fish locomotion. *AIAA Student Journal* 14 (2), 24-28.

#### Books

1. Yates, George T. (ed.) 1990 *Engineering Science, Fluid Dynamics; A Symposium to honor T. Y. Wu*. World Scientific, Singapore.
2. Yates, George T. (Translation reviser) 2002 *Thinking Fluid Dynamics with Dolphins* by Minoru Nagai (Ohmsha, Tokyo, Japan, 119 pp.)

#### Book Reviews and Letters

1. Yates, George T. 1986. Dragonfly Aerodynamics (Letter to the Editor). *Science*, 231 (4733), 10. (Jan. 3, 1986).
2. Yates, George T. 1984 Review on *Fish Locomotion* by R.W. Blake (Cambridge University Press, Cambridge, England, 1983, 208 pp.). *Mathematical Biosciences*, 71, 117-118.
3. Yates, George T. 1984 Review on *Mechanics of Swimming and Flying* by Stephen Childress (Cambridge University Press, Cambridge, England, 1981, x + 155 pp.). *SIAM Review*, 26 (4), 596-597.