
BIOGRAPHICAL SKETCH

WILLIAM R. C. PHILLIPS

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EDUCATION

Ph.D. (Fluid Dynamics)	University of Cambridge, England	1978
M.Eng (Aerodynamics)	McGill University, Canada	1974
B.E. (Hons) (Math & Mech Engg.)	Adelaide University, Australia	1970

APPOINTMENTS

University of Illinois at Urbana-Champaign		
Research Professor of Theoretical and Applied Mechanics		1996-
Clarkson University		
Associate Professor		1989-1996
Cornell University		
Visiting Associate Professor		1987-1989
Visiting Scientist		1986
University of Melbourne		
Senior Research Fellow		1984-1985
National University of Singapore		
Senior Lecturer (Associate Professor)		1982-1984
Lecturer (Assistant Professor)		1979-1981
Mount Isa Mines Ltd, Australia		
Research Engineer		1971-1973

AWARDS

Outstanding Advisor Award, 1993;
Rolls Royce Research Fellow, Churchill College Cambridge 1975-1978;
National Research Council of Canada Post Graduate Scholar 1973-1974
Edward Noyes Prize for 1973;
Commonwealth University Undergraduate Scholar 1966-1970.

FIVE RELEVANT PUBLICATIONS

1. PHILLIPS, W.R.C. (2002) Langmuir circulations beneath growing and decaying surface waves. *J. Fluid Mech.*, **469**, 317-342.
2. PHILLIPS, W.R.C. (2001) On an instability to Langmuir circulations and the role of Prandtl and Richardson numbers. *J. Fluid Mech.*, **442**, 335-358.
3. PHILLIPS, W.R.C. (2001) On the pseudomomentum and generalized Stokes drift in a spectrum of rotational waves . *J. Fluid Mech.*, **430**, 209-220.
4. PHILLIPS, W.R.C. (1998) Finite amplitude rotational waves in viscous shear flows. *Stud. in Appl. Math*, **101**, 23-47.
5. PHILLIPS, W.R.C. AND WU, Z. (1994) On the instability of wave-catalyzed longitudinal vortices in strong shear *J. Fluid Mech.*, **272**, 235-254.

FIVE OTHER SIGNIFICANT PUBLICATIONS

1. PHILLIPS, W.R.C. (1996) On a class of unsteady boundary layers of finite extent *J. Fluid Mech.*, **319**, 151-170.
2. PHILLIPS, W.R.C. WU, Z. & LUMLEY, J.L. (1996) On the formation of longitudinal vortices in a turbulent boundary layer over wavy terrain. *J. Fluid Mech.*, **326**, 321-341.
3. LIN, S.P, PHILLIPS, W.R.C. AND VALENTINE, D.T. EDITORS (1994) *Nonlinear instability of nonparallel flows* Springer-Verlag, Berlin, pp467.
4. PHILLIPS, W.R.C. & RATNANATHER, J.T. (1990) The outer region of a turbulent boundary layer. *Phys. Fluids A*, **2**, 427-434.
5. PHILLIPS, W.R.C. AND KHOO, B.C. (1987) The vortex boundary layer beneath a Rankine-like vortex. *Proc. R. Soc. Lond.*, A **411**, 1 77-192.

RECENT COLLABORATORS

J. Sakakibara, Tsukuba University
W.D. O'Brien, J. Zachary, University of Illinois at Urbana Champaign

ADVISORS

M.R. Head (deceased), Cambridge University
R.G. Cox (deceased), McGill University
B.G. Newman (deceased), McGill University

ADVISEES

Kuan-Khoon Tjan, Hsi-Heng Dai, Jie Yao, Hyuck Chung, Jie Yao, Zhong Wu,
Shen Qiang, Haiyu Tu, J.T. Ratnanather, Boo-Chong Khoo, Michael Lau