

Pablo Huq

<http://www.ceoe.udel.edu/envfluids>

(a) Professional Preparation

University of Cambridge	England	Fluid Mechanics	Ph.D. 1990
Cornell University	Ithaca, New York	Environmental Eng.	M.S. 1983
University of Glasgow	Scotland	Civil Engineering	B.Sc. 1976

Professional Qualifications

M.I.C.E. (Member of the Institution of Civil Engineers)

C.Eng. (Chartered Engineer, U.K.)

Eur.Eng. (European Engineer)

(b) Appointments

1997-present Associate Professor, University of Delaware

1990-1997 Assistant Professor, University of Delaware

1976-1990 Consulting Engineer, Scott-Wilson, London, U.K.

(c) Selected Publications

Huq, P. and Rahman, A., 2018. Optimizing the Determination of Roughness Parameters for Model Urban Canopies. *Boundary-Layer Meteorology*, doi:10.1007/s10546-018-0352-8, 23pp.

Huq, P. and Herring, S., 2017. A Review of Methodology for Evaluating the Performance of Atmospheric Transport and Dispersion Models and Suggested Protocol for Providing More Informative Results. *Fluids* 3(20), doi:10.3390/fluids3010020, 21pp.

S. Hanna, J. Chang, and P. Huq, 2016. Observed chlorine concentrations during Jack Rabbit I and Lyme Bay field experiments. *Atmospheric Environment*, 125, 252-256.

D. F. Scofield and P. Huq, 2014. Fluid dynamical Lorentz force law and Poynting theorem—introduction. *Fluid Dynamics Research*, 46, 055513.

P. Huq, 2013. Buoyant Outflows to the Coastal Ocean, *Handbook of Environmental Fluid Dynamics*, Vol. I, Chap. 17, 207-216, CRC Press

Anguelova, M. D., and P. Huq, 2012. Characteristics of bubble clouds at various wind speeds, *J. Geophys. Res.*, 117,C03036, doi:10.1029/2011JC007442.

Franzese, P, and P. Huq, 2011. Urban Dispersion Modelling and Experiments in the Daytime and Nighttime Atmosphere, *Boundary-Layer Meteorology*, 139:395–409

Pimenta, Felipe M., A. D. Kirwan, Pablo Huq, 2010: On the Transport of Buoyant Coastal Plumes. *J. Phys. Oceanogr.*, 41, 620–640.

Huq, P., 2009. The Role of Kelvin Number on Bulge formation from Estuarine Buoyant Outflows. *Estuaries and Coasts*, 32:709-719.

Huq, P. and E.J. Stewart, 2008. Measurements and analysis of the turbulent Schmidt number in density stratified turbulence, *Geophysical Research Letters*, 35, L23604.

(d) Synergistic Activities

Undertake interdisciplinary research. Publications on experiments on turbulent transport in the atmosphere and oceans. Currently teach graduate level classes on geophysical fluid dynamics and turbulent transport in the environment.

Reviewer for journals and proposals (JFM; JGR; Estuarine; Coastal and Shelf Science; Atmospheric Environment; Int. Journal of Heat and Mass Transfer; Env. Fluid Mech.; Journal of Marine Systems; J. Phy. Oceanography); NSF; Sea Grant Proposals.

Currently on Editorial Board of the journal "Environmental Fluid Mechanics"

Served on American Meteorological Society Committee on Meteorological Aspects of Air Pollution

Design and construction of density stratified water tunnel, and a rotating turntable for research on the physics of turbulence and coastal oceanography.