

## CURRICULUM VITAE

### LO Yat-Man, Edmond

Associate Professor & Chair  
School of Civil & Environmental Engineering  
Nanyang Technological University



### Education

PhD, Civil Engineering (Hydrodynamics), Massachusetts Institute of Technology, 1985  
BS and MS, Mechanical Engineering, California Institute of Technology, 1980

### Professional Experience

Nov 1987 – Jun 1987: Scientist, Cambridge Acoustical Assoc. Inc. MA, USA

Aug 1987 – Oct 1996: Principal Engineer, Physical Sciences Inc. MA, USA

#### Nanyang Technological University, School of Civil & Environmental Engineering

Nov 1996 – Present: Senior Lecturer then from Jan 1999, Associate Professor

Jun 2003 – Present: Assistant then Co-Director, Singapore Stanford Partnership Programme

July 2006 – Sep 2007: Director, Environment and Water Technologies Cluster

Apr 2005 – Jun 2008: Head of Division, Environmental & Water Resources Engineering

Jul 2008 – Present: Chair, School of Civil and Environmental Engineering

### Relevant Recent Professional Experience

Director, Lien Action for International Development, July 2006 to present

Advisory Board, Lien Institute for the Environment, July 2006 to June 2008

Treasurer and Society Council member, Asia Oceania Geosciences Society, July 2006 to June 2008

### Research Interest

Application of hydrodynamics to coastal and inland water flows with emphasis on wave mechanics, transport processes and implications on water quality.

### Recent Grants

Team Leader and PI, Project entitled “Establishment of a real time control, alarm, and mngt system for Marina Bay”. Duration: May 2006 from May 2009.

Team Leader and PI, Project entitled “Water quality, monitoring, modelling and mngt for a catchment & reservoir system – Phase 2”. Duration: Feb 2006 to Dec 2007.

### Recent Publications

1. Lee, W.K. and Lo, E.Y.M., “Surface-penetrating flexible membrane wave barriers of finite draft,” *Ocean Engineering*, 29(14), p1781-1805, Pergamon, 2002.
2. Lo, E.Y.M. and Shao, S., “Simulation of Near-Shore Solitary Wave Mechanics by an incompressible SPH method,” *Applied Ocean Research Engineering*, Elsevier 24(5), p275-286, 2002.
3. Rong, X, and Lo, E.Y.M., “On the stability of shoaling Stokes waves over a slowly varying bottom”, *Applied Ocean Research*, 26(5), 205-212, 2004.
4. Zhou, Z.X., Lo, E.Y.M., and Tan, S.K., “Effect of Shallow and Narrow Water on Added Mass of Cylinders with Various Cross-Sectional Shapes”, *Ocean Engineering* 32, 1199-1215, 2005.
5. Chua L.H.C., Lo E.Y.M., Freyberg D.L.; Shuy E.B., Lim T.T., Tan S.K., and Mzila N. “Hydrostratigraphy and geochemistry at a coastal sandfill”, *Hydrogeology Journal*. 15(8), p204-216, 2007.
6. Ong M.C., A.T. B. Lim, S. C. C. Lee, E.Y. M. Lo, & S. K. Tan (2007) “An Active Operator Guidance System for Ship Maneuvers—Prototype System” *Marine Technology Society Journal*, 42(4) 2008.
7. Tan S.B.K., Chua L.H.C., Shuy E.B., Lo E.Y. M. & Lim, L.W., Performances of rainfall-runoff models calibrated over single & continuous storm flow events. *ASCE J Hydrologic Eng*. 13(7), 597- 607, 2008.
8. Tan S.B.K., Lo E.Y.M, Shuy E.B., Chua L.H.C. & Lim W.H., “Generation of Total Runoff Hydrographs Using a Method Derived from a Digital Filter Algorithm”, *ASCE J Hydrologic Eng*, 14(1), 101-106, 2009.
9. Chua L.H.C, Lo E.Y.M, Shuy E.B. & Tan S.B.K. “Nutrients and Suspended Solids in Dry Weather and Storm Flows from a Tropical Catchment with Various Proportions of Rural and Urban Land Use.”, *Journal of Environmental Management*, Elsevier, 90, 3635-3642, 2009.