

C.V.

Name: Mohamed Aly Khamis Elsayed



PERSONAL DATA

Date of Birth: 09/01/1968

Marital Status: Married

Cell Phone: 01281007097

E-mail Address: melsayed_melsayed@yahoo.com

Mailing Address:

Arab Academy for Science & Technology and Maritime Transport [Cairo Branch]

College of Engineering & Technology

Abu-Kir campus

Alexandria

Egypt

EDUCATION

- **PhD in Engineering Mechanics.** Department of Engineering Science and Mechanics, Virginia Polytechnic Institute and State University [Virginia Tech], Virginia, USA, May 2005.
Dissertation Title: "Large Eddy Simulation and Wavelet Analysis of the Flow Field around a Surface Mounted Prism"
- **MSc in Hydraulic Engineering.** Institute for Infrastructure, Hydraulic and Environmental Engineering, Delft, The Netherlands, April 1999.
Thesis title: "Evaluation of UNIBEST-TC for Egmond Site and Duck Site Based on Field Data"
- **MSc in Hydraulic Engineering.** Faculty of Engineering, Alexandria University, Egypt, July 1997.
- **BSc in Civil Engineering.** Faculty of Engineering, Alexandria University, Egypt, July 1992.

AWARDS & HONOURS

- Membership of *Nature* Reader Panel since December, 2008.
- Selected as one of the Dominion Scholars at Old Dominion University, VA, USA, for spring 2000.
- WL|Delft Hydraulics Fellowship for MSc. study in coastal engineering, (1998-1999), Delft, The Netherlands.
- The Netherlands Government Fellowship for studying a Diploma in Hydraulic Engineering at IHE Delft, The Netherlands, (1997-1998).
- DANIDA Fellowship for training in Coastal Engineering at the Danish Hydraulic Institute, Port consult, and the Danish Coastal Authority, (1996), Copenhagen, Denmark.

PROFESSIONAL EXPERIENCE

- **Research**

- Associate Professor, Faculty of Engineering and Technology, Arab Academy for Science, Technology and Maritime Transport [Arab League], March 2010 – Present.
- Assistant Professor, Faculty of Engineering and Technology, Arab Academy for Science, Technology and Maritime Transport [Arab League], . February 2008 – February, 2010.
- Researcher at National Water Research Center {Coastal Research Institute}, Alexandria, Egypt, July, 2006– January, 2008.
- Researcher and Supervisor of various projects at the Egyptian Shore Protection Authority, June, 2005 – June, 2006.
- Reviewer for Journal of Coastal Research, Coastal Engineering, and Ocean Engineering.
- Research Assistant, Department of Engineering Science and Mechanics, Virginia Tech, Virginia, USA, January 2003- May 2005.
- Research Assistant, Department of Civil Engineering, Virginia Tech, Virginia, USA, January 2002- December 2002.
- Research Assistant, Department of Civil Engineering, Old Dominion University, Virginia, USA, January 2000- December 2001.
- Researcher and Supervisor of various projects at the Egyptian Shore Protection Authority, December, 1992 – December, 1999.

- **Teaching**

- Associate Professor, Faculty of Engineering and Technology, Arab Academy for Science, Technology and Maritime Transport [Arab League], March 2010 – Present
- Assistant Professor, Faculty of Engineering and Technology, Arab Academy for Science, Technology and Maritime Transport [Arab League], Egypt. February 2008 – February, 2010.
- Adjunct Assistant Professor, Faculty of Engineering and Technology, Arab Academy for Science, Technology and Maritime Transport [Arab League], Egypt. Teaching Engineering Mechanics I, Engineering Mechanics II, Mechanics of Materials, Hydraulics and Fluid Mechanics Courses, February 2006 – January, 2008.

- Teaching Assistant, Department of Engineering Science and Mechanics, Virginia Tech, Virginia, USA, Fluid Mechanics Courses & Mechanics of Materials and Fluid Mechanics Laboratory, January 2003- May 2005.
- Teaching Assistant, Civil Engineering Department, Old Dominion University, Virginia, USA. Freshman engineering course in fall semester 2001.
- Lecturer of Supplementary Lectures, Civil Engineering Department, Old Dominion University, Virginia, USA. Hydromechanics course in fall semester 2001.
- Lecturer of software packages for civil engineers [PRIMAVERA (Project Planning) & STAAD (Structural Analysis & Design)] in the following Organizations:
 - i) Various computer Companies in Egypt from July 1992 to April 1996.
 - ii) Behira Engineers Syndicate in Egypt from August 1994 to August 1995.
 - iii) Alexandria Engineers Syndicate in Egypt from January 1994 to May 1994.

COMPUTER EXPERIENCE

- **Computer Languages:** FORTRAN,BASIC,MATLAB
- **Computer OS:** WINDOWS & UNIX
- **Software Packages:**

CEDAS (STWAVE, RCPWAVE, GENESIS, SBEACH), MIKE21, LITPACK, UNIBEST. STAAD, PRIMAVERA, AUTOCAD, ARCVIEW, Latex, and MS Office (Word, Excel and Power Point).

TRAINING ATTENDED

- Training Course at the auspices of the Shore Protection Authority in Cairo under the supervision of Danish Hydraulic Institute during the period from February 1997 to May 1997 in: “numerical modeling of littoral processes with special emphasis on application to Rosetta promontory using LITPACK software package”.
- Training course in coastal engineering held by the Danish Hydraulic Institute, Portconsult and the Danish Coastal Authority from May 1996 to November 1996.
- Successful completion of the 14th international course on environmental hydrology for Arid and Semi-Arid regions held at the Development Research

and Technological Planning Center- Cairo University, Egypt, May 8th to June 30,1994 under the supervision of UNESCO.

PUBLICATIONS

a) Dissertation/Thesis

- "Large Eddy Simulation and Wavelet Analysis of the Flow Field around a Surface Mounted Prism", Ph.D., Department of Engineering Science and Mechanics, Virginia Polytechnic Institute and State University [Virginia Tech], Virginia, USA, May 2005.
- "Evaluation of UNIBEST-TC for Egmond Site and Duck Site Based on Field Data", MSc., International Institute for Infrastructure, Hydraulic and Environmental Engineering, Delft, The Netherlands, April 1999.
- "Study of Accretion/ Erosion Pattern along Rosetta Promontory", MSc., Faculty of Engineering, Alexandria University, Egypt, July 1997.

b) Technical Reports

- **Elsayed, M.A.K.**, 2001. Wallops Island: Historical Data Collection. Report prepared for Corps of Engineers, Norfolk District Office, Virginia, USA.
- **Elsayed, M.A.K.**, and Mahmoud, S.M. 1997. Prediction of Shoreline Changes along Rosetta Promontory, Egypt using LITPACK Numerical Modeling System. Report prepared for the Shore Protection Authority in Egypt, under the supervision of Danish Hydraulic Institute.
- **Elsayed, M.A.K.**, et al. 1996. Numerical Modeling of Waves and Sediment Transport Conditions for the Nile Delta Coast. Report prepared for Danida Fellowship Program, Copenhagen, Denmark.

c) Refereed Journals & Conferences

1. **Elsayed, M.A.K.**,2011. Analyzing Wave Breaking in a Barred Beach Using Wavelet. *Journal of Coastal Conservation*, 15(4),639-645.
2. **Elsayed, M.A.K.**, **Ismail ,N.M.**2011."Enhancement of Cross-Shore Profile Evolution Models for Sustainable Coastal Design".COPRI2011, Conference on Coastal Engineering Practice,ASCE, San Diego, California,USA, August, 21-24, 2011
3. **Elsayed, M.A.K.**, 2010. An Overview of Wavelet Analysis and its application to ocean wind waves. *Journal of Coastal Research*,26(3),535-540.
4. Tieleman, H.W., **Elsayed, M.A.K.**, Zhongfu Ge, and Hajj, M.R., 2008. Extreme Value Distributions for Peak Pressure and Load Coefficients. *Journal of Wind Engineering and Industrial Arodynamics*, 96, 1111-1123.
5. **Elsayed, M.A.K.**, 2008. Non-linear Wave-Wave Interactions. *Journal of Coastal Research*, 24 (3), 798-803.
6. **Elsayed, M.A.K.** , 2008. On the Linear and Non-linear Interaction between Wind and Wave. *Journal of Coastal Research*, 24 (2), 519-526.

7. **Elsayed, M.A.K.**, 2008. Application of Continuous Wavelet Analysis in Distinguishing Breaking and Non-Breaking Waves in the Wind-Wave Time Series. *Journal of Coastal Research*, 24 (1), 273-277.
8. **Elsayed, M.A.K.**, 2007. Use of Wavelet Bicoherence in Analyzing Non-linear Wind-Wave Interaction during Wave Growth. *Journal of Coastal Research*, 23(6), 1593-1601.
9. **Elsayed, M.A.K.**, 2007. Non-linear Wave-Wave Interactions in a Mistral Event. *Journal of Coastal Research*, 23(5), 1318-1323.
10. **Elsayed, M.A.K.**, 2007. Investigation of Wind-Wave Interaction during Wave Growth Using Continuous Wavelet Analysis. *Journal of Coastal Research*, 23(4), 1010-1014.
11. **Elsayed, M.A.K.**, 2007. The Development of Non-linearity in the Wind-Wave Interaction in a Mistral Event. *Journal of Coastal Research*, 23(2), 464-471.
12. **Elsayed, M.A.K.**, 2007. The Use of Wavelet Analysis in Detecting Dispersion and Groupings of Waves during a Mistral Event. *Journal of Coastal Research*, 23(2), 417-420.
13. **Elsayed, M.A.K.** and Mahmoud, S.M., 2007. Groins-System for Shoreline Stabilization in the East Side of Rosetta Promontory, Nile Delta Coast. *Journal of Coastal Research*, 23(2), 380-387.
14. Tieleman, H.W., **Elsayed, M.A.K.**, and Hajj, M.R., 2006. Peak Wind Load Comparison: Theoretical Estimates and ASCE7. *Journal of Structural Engineering-ASCE*, Volume 132, Issue 7, pp. 1150-1157.
15. **Elsayed, M.A.K.**, 2006. Application of a Cross-shore Profile Evolution Model to Barred Beaches. *Journal of Coastal Research*, 22(3), 645-663.
16. **Elsayed, M.A.K.**, 2006. Wavelet Bicoherence Analysis of Wind-Wave Interaction. *Ocean Engineering*, 33(3-4), 458-470.
17. **Elsayed, M.A.K.**, 2006. A Novel Technique in Analyzing Non-linear Wave-Wave Interaction. *Ocean Engineering*, 33(2), 168-180.
18. **Elsayed, M.A.K.**, Younan, N.A., Fanos, A.M., and Baghdady, K.H., 2005. Accretion and Erosion Patterns along Rosetta Promontory, Nile Delta Coast. *Journal of Coastal Research*, 21(3), 412-420.
19. **Elsayed, M.A.K.**, Elokda, Y.M., Ragab, S.A., and Hajj, M.R., 2005. Numerical Simulation of Wind Loads on Structures and Effects of Incident Turbulence. The Fourth European- African Conference on Wind Engineering, EACWE4, Prague, 11-15 July, 2005.
20. Hajj, M. R., Silva, W.A., **Elsayed, M.A.K.**, Chabalko, C.C., and Ragab, S.A., 2005. Identification of Intermittent Nonlinear Aero-elastic Phenomena. Proceedings of the International Forum on Aero-elasticity and Structural Dynamics, Munich, Germany, June 28-July 1, 2005.
21. Tieleman, H.W., **Elsayed, M.A.K.**, and Hajj, M.R., 2005. Peak Wind Load Comparison : Theoretical Estimates and ASCE7. The 10th Americas Conference on Wind Engineering, May, 31- June, 4, 2005. Baton Rouge, Louisiana, USA.
22. Tieleman, H.W., **Elsayed, M.A.K.**, and Hajj, M.R., 2005. Prediction of Peak Wind Loads on Low-rise Structures. The Solutions to Coastal Disasters Conference, ASCE, May, 8 - May, 11, 2005. Charleston, South Carolina, USA