

CURRICULUM VITAE

Professor: Walid Elshorbagy

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(Website: http://www.eng.uaeu.ac.ae/en/docs/walidelshorbagy_resume.pdf)

Notarization. I have read the following and certify that this curriculum vitae is a current and accurate statement of my professional record.

Signature  Date _____ March , 2015 _____

1. Personal Information

(DOB: June 14, 1963, Nationality: Egyptian, Marital Status: Married with four children)

a. Education (Include degrees, university studies and dates)

1991-1995 Ph.D., Civil Engineering, Univ. of Arizona, Tucson, AZ, USA. "Design of Irrigation System of Canals Using Stochastic Optimization Approach".

1989-1990 M.S. Hydraulics, Civil Engineering, Univ. of Utah, Logan, Utah, USA. "Fixed Gate-Crest Dual Control of the Ogee Crest Spillway Operation".

1986-1987 Preliminary year of graduate study for M.S. in Structural Mechanics, Civil Engineering, Cairo University, Cairo, Egypt.

1980-1985 B.S. Civil Engineering, College of Engineering, Cairo University, Cairo, Egypt. Emphasis in Structure.

b. Professional experience (include positions held in reverse chronological order)

May 2014-Promoted to the rank of Full Professor effective of Sept. 1st, 2014

09/11-Now Director of the Water Resources Master Program, United Arab Emirates University.

09/07-02/10 Director of the Civil Engineering Master Program, Civil Engineering Department, United Arab Emirates University.

01/02-31/14 Associate Professor, Civil and Environmental Engineering Dept., United Arab Emirates University.

09/96-12/01 Assistant professor, Civil Engineering Dept., United Arab Emirates University, Teaching undergraduate courses in environmental engineering, water resources, and math and engineering applications and graduate courses in environmental engineering, water resources in addition to supervising many undergraduate graduation projects and M.Sc research thesis.

02/96-09/96 Head of water distribution section in the Water Distribution and Irrigation Systems Institute, National Water Research Center, Egypt. Numerical and experimental modeling in national hydraulic and irrigation problems related to the water distribution, delivery, and management of irrigation water.

07/95-12/95 Faculty Adjunct., Civil Eng. Dept., Teaching Fluid Mechanics, Water Resources, and Hydrology classes, Civil Eng., Univ. of Arizona, Tucson, AZ, USA.

Spring '95 Teaching Assistant, Fluid Mechanics Lab Class, Civil Eng., Univ. of Arizona, Tucson, AZ, USA.

Fall '94 Teaching Assistant, Fluid Mechanics Lab Class, Civil Eng., Univ. of Arizona, Tucson, AZ, USA.

Summer '94 Instructor, Fluid Mechanics Class, Civil Eng., Univ. of Arizona, Tucson, AZ, USA.

1/94-9/94 Research Assistant, Watershed Research Center (WRC), ARS, USDA, Tucson, Az, USA.

Spring '93 Teaching Assistant, Fluid Mechanics Class, Civil Eng. Dept., Univ. of Arizona, Tucson, AZ, USA.

Fall '1992 Instructor, Fluid Mechanics Class, Civil Eng. Dept., Univ. of Arizona, Tucson, AZ, USA.

Summer '92 Instructor, Fluid Mechanics Class, Civil Eng. Dept., Univ. of Arizona, Tucson, AZ, USA.

Spring '92 Teaching Assistant, Engineering Graphics Class, Civil Eng. Dept., Univ. Of Arizona, Tucson, AZ, USA.

7/87-12/88 Research Assistant, Drainage Water Research Institute (DWRI), Water Research Center (WRC), Ministry of Irrigation, Cairo, Egypt. Reuse of Drainage Water National Project; flow measurements in surface and subsurface drains, water salinity measurements and analysis, pump stations calibration, and preparation of annual report.

6/86-6/87 Construction design and executive engineer, Private Construction Companies, Cairo, Egypt.

2. Research, Scholarly, and Creative Activities (all items in subsections to be given in chronological order)

a. Books

i. Books edited

In the Water Quality Area

1. **Walid El-Shorbagy** and Rezaul K. Chowdhury (2013). "Water Treatment" ISBN 978-953-51-0928-0, 380 pages, Publisher: InTech, DOI: 10.5772/2883.

In the Coastal Environment Area

1. Mohamed AlAzab, **Walid Elshorbagy**, and Seif AlGhais – Editors (2005) "Oil pollution and its impact on the Arabian Gulf Countries", Development in Earth and Environmental Sciences Series, Published by Elsevier.

In Other Research Areas

1. Essam Abdel-Hafeez, **Walid Elshorbagy**, and Essam Khalifa – Editors (1999) "Sustainability of Water Resources in Arid Regions." Proceedings of the Second International Conference of Sustainability on Desert Regions, College of Engineering, United Arab Emirates University.

ii. Chapters in Books

In the Water Quality Area

1. Rezaul K. Chowdhury and **Walid El-Shorbagy** (2013). "Chapter 1: Informatics, Logistics and Governance in Water Treatment Technologies". In Water Treatment Book, edited by Walid El-Shorbagy and Rezaul K. Chowdhury, ISBN 978-953-51-0928-0, 380 pages, Publisher: InTech, DOI: 10.5772/2883.
2. **Walid Elshorbagy** (2003), "Chapter 5: Fate and transport of haloforms in water distribution systems", The Handbook of Environmental Chemistry, Volume 5, Springer Publisher.

In the Coastal Environment Area

3. Abubaker Elhakeem and **Walid Elshorbagy** (2015). “Chapter 8: Impacts of Desalination on Coastal Water”. In Advances in Coastal Hydraulics, edited by Vijay Pachang and James Kaihatu. Publisher: World Scientific Publishing Co Pte Ltd. (in production).

In Other Research Areas

1. Kevin Lansey and **Walid Elshorbagy** (2002) “Chapter 12: Design of Pumps and Pump Facilities” in AWWA Handbok ”Storm-Water Drainage Systems Design Handbook”, Larry W. Mays, Editor-in-chief, McGraw Hill Pub. Co., 12-1 to 2-41.

b. Articles Published/Accepted in Refereed Journals

In the Water Quality Area

1. **W. E. Elshorbagy** and M. Shawaqfah (2014). “Development of an ASM1 Dynamic Simulation Model for an Activated Sludge Process in United Arab Emirates”. Tayloer and Francis Journal of Desalination and Water Treatment, DOI: 10.1080/19443994.2014.880375.
2. Abdel Mohsen Mohammed, **Walid Elshorbagy**, Imad Juma Mohammed, and Esam Abdel Gawad (2013). Treatment of concrete wash water generated from ready-mix concrete trucks, Dubai, U.A.E. Desalination and Water Treatment Journal, DOI: 10.1080/19443994.2013.852137 (published online).
3. **Walid El Shorbagy**, Nawras Nabil, and Ronald L. Droste. (2013). “Optimization of A²O BNR Processes Using ASM and EAWAG Bio-P Models: Model Performance”. Journal of Water and Environment Federation Research, Vol. 85, issue 12, pp 2237-2250.
4. Naglaa Eid and **Walid Elshorbagy** (2013). “Remediation of Brackish Ground Water in United Arab Emirates Using Electro-Dialysis Technique”. Taylor and Francis Journal of Desalination and Water Treatment, Vol. 51, Issue 13-15, pp 2672-2679, DOI: 10.1080/19443994.2012.749326.
5. **Walid El Shorbagy**, Nawras Nabil, and Ronald L. Droste. (2011). “Optimization of A²O BNR Processes Using ASM and EAWAG Bio-P Models: Model Formulation”. Water Quality Research Journal of Canada, DOI:10.2166/wqrjc.2011.005, Vol. 46 No 1, 13-27.
6. **Elshorbagy, W.** Arwani, A., and Droste, R. (2011). “Optimal Sizing of Activated Sludge Process Considering ASM3 Model”. International Journal of Civil and Environmental Engineering, Vol. 11 Issue: 01 ISSN: 2077-1207, pp 19-55.
7. Kevin Lansey, Fayzul Pasha, Sheina Pool, **Walid Elshorbagy**, and James Uber (2007). Locating Satellite Booster Disinfectant Stations. ASCE/Water Resources Planning and Management Journal, Vol. 133, Issue 4, 372-376.
8. **Walid Elshorbagy** and Mohamed Abdulkarim (2006). Chlorination ByProducts in Drinking Water Produced from Thermal Desalination in United Arab Emirates. Springer Journal of Environmental Monitoring and Assessment, 123/1-3, DOI: 10.1007/s10661-006-9199-4.
9. Mohamed Al Zarooni and **Walid Elshorbagy** (2006). Characterization and Assessment of Al Ruwais Refinery Wastewater. Elsevier Journal of Hazardous Materials, A136 (2006) 398- 405.

10. Eid, N., **Elshorbagy, W.**, Larson, D., Slack, D. (2000). "Nitrate Electromigration in Sandy Soil." J. Hazardous Materials, Vol. 79 (1-2), 133-149.
11. **Elshorbagy, W.A** (2000). "Kinetics of THM species in drinking water." Journal of Water Resources Planning and Management, ASCE, Vol. 126, No. 1, 21-28.
12. **Walid E. Elshorbagy**, Hany Abu-Qdais, and Mohammed K. Elsheamy. (2000) "Simulation of THM species in water distribution systems." Water Research Journal, Vol. 34, No. 13, 3431-3439.

In the Coastal Environment Area

13. Abubaker Al Hakeem, **Walid Elshorbagy**, Tobias Bleninger (2015). Long-Term Hydrodynamic Modelling of the Arabian Gulf. Accepted for Publication in Marine Pollution Bulletin.
14. Abubaker Elhakeem and **Walid Elshorbagy** (2013). Evaluation of the long-term variability of seawater salinity and temperature in response to natural and anthropogenic stressors in the Arabian Gulf. Marine Pollution Bulletin, DOI: 10.1016/j.marpolbul.2013.08.036, Vol. 76, Issues 1-2, 355-359
15. **Walid Elshorbagy**, Mir Hammadul Azam, and Abubaker Al Hakeem (2013). Temperature- Salinity Modeling for Ruwais Coast, United Arab Emirates. Marine Pollution Bulletin, 73, 170-182.
16. **Walid Elshorbagy** and Abu-Bakr Elhakeem (2008). Risk assessment maps of oil spill for major desalination plants in United Arab Emirates. Elsevier J. of Desalination, Vol. 228, pp. 200-216.
17. **Walid Elshorbagy**, Mir Hammadul Azam, Kisaburo Nakata, and Tomohiko Terasawa (2008). Temperature-Salinity field of the shallow shelf of southern Arabian Gulf. Far East Journal of Ocean Research, Vol. 1, Issues 2-3, pp 99-126.
18. A.A. Elhakeem, **W. Elshorbagy**, and R.Chebby (2007). Oil spill simulation and validation in the Arabian (Persian) Gulf: with special reference to the UAE coast, Springer Journal of Soil, Water, and Air Pollution, DOI: 10.1007/s11270-007-9413-1, Volume 184, No 1-4., pp 243-254.
19. **Walid Elshorbagy**, Mir Hammadul Azam, and Koichi Taguchi (2006). Hydrodynamic Characterization and Modeling of the Arabian Gulf. ASCE/J. Water Way, Port, Coastal and Ocean Engineering, Vol. 132, No. 1, pp. 47-56.
20. Mir Hammadul Azzam, **Walid Elshorbagy**, Tetsuya Ichikawa, Tomohiko Terasawa, and Koichi Taguchi (2006). 3D application to study the residual flow in the Arabian Gulf. ASCE/J. Water Way, Port, Coastal and Ocean Engineering, Vol.132, No. 5, pp. 388-400.
21. Mir Hammadul Azam, **Walid Elshorbagy**, Kisaburo Nakata (2006). Three-dimensional modeling of the Ruwais Coastal Area of United Arab Emirates. ASCE/J. Water Way, Port, Coastal and Ocean Engineering, Vol.132, No. 6, pp. 487-495.

In Other Research Areas

22. Abubakr Awad Elhakeem, **Walid Elsayed Elshorbagy**, Hazem Bakri AlNaser, and Francina Dominguez (2015). "Downscaling Global Circulation Model Projections of Climate for the UAE". ASCE J. Water Resources Planning and Management., 10.1061/(ASCE)WR.1943-5452.0000507 , 04015007

23. Chowdhury, R. K., **El-Shorbagy, W.**, Ghanma, M. and El-Ashkar, A. (2014) Quantitative Assessment of Residential Water End Uses and Greywater Generation in the City of Al Ain, Water Science and Technology: Water Supply, doi:10.2166/ws.2014.090.
24. **Elshorbagy, W.E** and Al Maamari, M.S (2011). Integration of Water Transmission and Distribution Systems via Bypassing Storage Reservoirs. International Journal of Civil & Environmental Engineering IJCEE-IJENS Vol.11, Issue: 05 ISSN: 2077-1258, pp 63-84.
25. **Walid Elshorbagy** and Abdulkader Alkamaly (2005). "Solid Waste Generation from Oil and Gas Industries in United Arab Emirates". Journal of Hazardous Materials, Vol. 120, Issue 1, No.3, pp. 89-99.
26. K. E. Lansey, I. Ahmed, and **W. El-Shorbagy** (2002). "Closure to Calibration Assessment and Data Collection for Water Distribution Networks" By K. E. Lansey, W. El-Shorbagy, I. Ahmed, J. Araujo, and C. T. Haan." Journal of Hydraulic Engineering, ASCE, Vol. 128, No. 12, 1106-1107.
27. **Walid Elshorbagy**, Kevin Lansey, and Donald Slack, (2001). "Optimal Sizing of Irrigation Delivery Systems Using a Two-Stage Stochastic Programming Approach". Journal of Civil Engineering and Environmental Systems, Vol. 18, No. 4, pp. 331-362.
28. K. E. Lansey, **W. El-Shorbagy**, I. Ahmed, J. Araujo, and C. T. Haan. (2001). "Calibration Assessment and Data Collection for Water Distribution Networks." Journal of Hydraulic Engineering, ASCE, Vol. 127, No. 4, 270-279.
29. **Elshorbagy, Walid**. (2000), "Impact Assessment of an Irrigation Improvement Project in Egypt." Journal of Water Resources Management, Vol. 14 (3), 229-246.
30. **Elshorbagy, W.A.**, and Mohamed, A.M.O. (2000). "Evaluation of the Potential Use of Municipal Solid Waste Compost in Landfill Closure Caps in Arid Lands." Waste Management Journal, Vol. 20, No. 7, 499-507.
31. **Elshorbagy, W.**, Yakowitz, D., and Lansey, K. (March 1997) "Design of Engineering Systems Using a Stochastic Decomposition Approach", Journal of Engineering Optimization, Vol. 27, No 4, 279-302.

C. Research Technical Reports

In Water Quality Area

1. Final Report of Individual Research Project "Remediation of Brackish Ground Water in United Arab Emirates Using Electro-Dialysis Technique". **Elshorbagy, W.A. (P.I)**, Eid, N. M. Supported by Research Council, United Arab Emirates. (2011).
2. Final Report of Individual Research Project "Development of a Novel Electrochemically Controlled Drip Irrigation System for Moisture and Nutrient Management in Arid Lands". **Elshorbagy, W.A. (P.I)**, Galal, A.M. Supported by Research Council, United Arab Emirates. (2002).
3. Final Report of Individual Research Project "Innovative Design and Modeling of Landfill Closure Cap in Arid Areas." **Elshorbagy, W.A.**, Mohamed, A.M.O, Kamaly, A.M. Supported by Research Council, United Arab Emirates, (1999).
4. Final Report of Individual Research Project "Integrated Quality Modeling and Management in Drinking Water Distribution Systems." **Elshorbagy, W.A.**, Radwan,

J.M, Qdais, H. A. Research Council, United Arab Emirates. (1998).
 Final Report "Mahmoudia Canal Improvement Project" Elquosy Daa, **Elshorbagy, Walid**. Water Distribution and Irrigation Systems Institute", Strategic Research Project, Water Research Center, Egypt. (1996).

In the Coastal Environment Area

5. Final Annual Report of Externally-Funded Research Project "Impact Assessment of Refinery-Wastes on Desalinated Water in UAE". **Elshorbagy, W.A.** and Abdelkareem, M. Supported by Japan Cooperation Center, Petroleum (JCCP). (2005).
6. Fourth Annual Report of Externally-Funded Research Project "Impact Assessment of Refinery-Wastes on Desalinated Water in UAE". **Elshorbagy, W.A.** and Abdelkareem, M. Supported by Japan Cooperation Center, Petroleum (JCCP). (2005).
7. Third Annual Report of Externally-Funded Research Project "Impact Assessment of Refinery-Wastes on Desalinated Water in UAE". **Elshorbagy, W.A.** and Abdelkareem, M. Supported by Japan Cooperation Center, Petroleum (JCCP). (2004).
8. Second Annual Report of Externally-Funded Research Project "Impact Assessment of Refinery-Wastes on Desalinated Water in UAE". **Elshorbagy, W.A.** and Abdelkareem, M. Supported by Japan Cooperation Center, Petroleum (JCCP). (2003).
9. First Annual Report of Externally-Funded Research Project "Impact Assessment of Refinery-Wastes on Desalinated Water in UAE". **Elshorbagy, W.A.** and Abdelkareem, M. Supported by Japan Cooperation Center, Petroleum (JCCP). (2002).

d. Other Professional Papers and Talks, Abstracts, Presented at Conferences

- i. Refereed conference proceedings

In the Water Quality Area

1. **Walid Elshorbagy** and Moayyad Shawaqfa (June 2011). Development of an ASM1 Dynamic Simulation Model for an Activated Sludge Process in United Arab Emirates. Eighth IWA Leading-Edge Conference on Water and Wastewater Technologies. Amsterdam, Netherland.
2. Naglaa Eid and **Walid Elshorbagy**. (May 2008). "Moisture and Nitrate Variation in Electrochemically-Controlled Drip Irrigation System in Sandy Soil". World Environmental & Water Resources Congress 2008, Hawaii, USA.
3. Mohamed AbdulKareem and **Walid Elshorbagy** (April 2007). "*Efficiency of Coastal Thermal Desalination in removing Chlorination byproducts and their organic precursors*". Conference on Desalination and the Environment, organized by European Desalination Society 'EDS', Greece.
4. **Walid Elshorbagy** (December 2006). "*Contribution of Selected Oil Refinery Wastewater to the Formation of Chlorination Hazardous Byproducts*". Offshore Arabia 2006 Conference organized by the Regional Clean Sea Organization (RECSO), Dubai, United Arab Emirates.
5. **Walid Elshorbagy** and Mohamed AbdulKareem (December 2006). "*Oil Refinery Wastewater and Its Potential Impact on Drinking Water Produced from Nearby Desalination Plants*". Offshore Arabia 2006 Conference organized by the Regional Clean Sea Organization (RECSO), Dubai, United Arab Emirates.
6. Mohamed AbdulKareem and **Walid Elshorbagy** (December 2006). "*Characterization of Oil Refinery Wastewater*". Offshore Arabia 2006 Conference organized by the Regional Clean Sea Organization (RECSO), Dubai, United Arab Emirates.

7. **Walid Elshorbagy** and AlJabry Awbath (August 2006). "*Transport Kinetics of Bromoform Formed in Desalinated Water*". Proceedings of the 8th Annual International Symposium on Water Distribution Systems Analysis, Cincinnati, Ohio, USA.
8. **Elshorbagy, W.** and Arwani, A (June 2004) "*Usage of advanced biological models in sizing wastewater biological treatment reactors*", Presented in the Tenth International Conference on Development and Application of Computer Techniques to Environmental Studies, Organized by WESSEX Institute of Technology, Ancona, Italy.
9. **Elshorbagy, Walid.** (April 2000) "*Propagation of THM Species in Water Distribution System.*" 2000 Information Management & Technology Conference, AWWA, Seattle, Washington, USA.
10. **Elshorbagy, W.A** (February 1998) "*Specifications and Regulations to Control Drinking Water Quality in Gulf Countries (In Arabic)*". Environmental Cooperation Conference of the Gulf Countries in Kuwait, Kuwait Environment Protection Society.
11. **Elshorbagy, W.,** and Lansey, K. (April 1994). "*Dynamic Modeling of Water Quality in Water Distribution Systems*" AWWA Computer Conference, Los Angeles, California, 457-465.

In the Coastal Environment Area

12. **Walid Elshorbagy** and Abu Bakr Elhakeem (March 2015) *Future of desalination technologies in the Arabian gulf countries considering their impacts and the climate change on the marine environment*. IX Workshop in Planning and Evaluation: Strategies for the Environment. Evaluation and Planning for Extreme Events to be held in Valenzano (Bari, Italy) on the 16th and 17th of March 2015 at the Mediterranean Agronomic Institute of Bari.
13. **Walid Elshorbagy**, Modeling of Transport of Organic Pollutants in the Coastal Water of United Arab Emirates (August 2014), 11th International Conference on Hydroinformatics, New York, USA
14. **Walid Elshorbagy** and Abu Bakr Elhakeem (April 2014) Impact of the Coastal Intake Environment on the Operating Conditions of Thermal Desalination Plants: A Case Study in United Arab Emirates. International Conference on Desalination, Environment, and Marine Outfall Systems-ICDEMOS2014. Muscat, Oman.
15. Abu Bakr Elhakeem and **Walid Elshorbagy** (April 2014). Overview of Different Approaches Simulating the Long Term Response to Climate Change and Coastal Effluents in the Arabian Gulf. International Conference on Desalination, Environment, and Marine Outfall Systems-ICDEMOS2014. Muscat, Oman.
16. Gianfausto Salvadori, Giuseppe Roberto Tomasicchio, Felice D'Alessandro, **Walid ElShorbagy**, and Abu Baker El-Hakeem (June 2014). Multivariate Coastal and off Shore Design VIA Copulas at the Arabian Gulf". Accepted for presentation and inclusion in the proceedings of the 34th International Conference on Coastal Engineering - ICCE2014, Seoul, Korea.
17. **Walid Elshorbagy** and Abu Bakr Elhakeem (July 2012). "Forecasting the Oil Spill Impacts on Coastal Desalination Plants in United Arab Emirates". 11th

- International Conference on Modeling, Monitoring and Management of Water Pollution, New forest, UK.
18. **Walid Elshorbagy** and Abu Bakr Elhakeem (June 2009). "Use of Reverse Numerical Modeling in Forecasting the Contamination Hazard of Oil Spill against Coastal Facilities". 4th SCACR International Short Conference on APPLIED COASTAL RESEARCH in Barcelona, Spain.
 19. **Walid Elshorbagy** and Ahmed Bacioni (February 2009). "Locating the intakes and outlets of coastal thermal desalination plants considering the coastal physical conditions". Third International Conference in Ocean Engineering (ICOE-2009), Madras, India.
 20. **Walid Elshorbagy**. (May 2008). "Fate Transport of Organic Pollutants in the Coastal Water of United Arab Emirates". World Environmental & Water Resources Congress 2008, Hawaii, USA.
 21. **Walid Elshorbagy**. (February 2008). "Overview of Arabian Gulf Hydrodynamics and Its Circulation Conditions". 7th International Conference on Coastal and Port Engineering in Developing Countries "COPEDC", Dubai, UAE.
 22. Ahmed Bassioni and **Walid Elshorbagy** (December 2006). "Impact of Coastal Physical Conditions on Selecting the Inlet-Outlet Structures of Coastal Desalination Plants". Offshore Arabia 2006 Conference organized by the Regional Clean Sea Organization (RECSO), Dubai, United Arab Emirates.
 23. AbuBakr Elhakeem and **Walid Elshorbagy** (December 2006). "Mapping the Impact of Oil Spill Events on Desalination Plants in United Arab Emirates". Accepted for publication and presentation in the Offshore Arabia 2006 Conference organized by the Regional Clean Sea Organization (RECSO), Dubai, United Arab Emirates.
 24. **Walid Elshorbagy**, Mir Hammadul Azzam, and Koichi Taguchi, Tetsuya Ichikawa and Tomohiko Terasawa (June 2006). "Recent Hydrodynamic and Recirculation Findings of the Arabian (Persian) Gulf". 113th Annual ASCE Conference, Ocean, Marine, and Coastal Engineering Division. Chicago, USA.
 25. **W. Elshorbagy**, M. Azam, and S. Mustafa (April 2005) "Ecological characterization and simulation of a coastal industrial area in United Arab Emirates". Invited paper presented and published in the proceedings of the 7th Int. Conference on Modelling, Measurements, Engineering and Management of Seas and Coastal Regions (Coastal Engineering VII, 2005), Organized by WESSEX Institute of Technology, Portugal.
 26. **Elshorbagy, W.**, Azam, M., AbdulKareem, M. (June 2003) "Three dimensional modeling of an industrial coastal area in United Arab Emirates", Invited paper presented and published in the proceedings of the 6th Int. Conf. on Comp. Modeling and Experimental. Measurements of Seas and Coastal Regions (Coastal Engineering 2003), WESSEX Institute of Techn., Cadiz, Spain.
 27. **Elshorbagy, W.**, Azam, M., AbdulKareem, M. (May 2002) "Hydrodynamic Modeling of the Southern Arabian Gulf", Proceedings of the Ninth International Conference on Hydraulic Information Management "HYDROSOFT 2002", Organized by WESSEX Institute of Technology, Montreal, Canada.

In Other Research Areas

28. **Walid Elshorbagy** and Mohamed Al Maamary (September 2010), **Pressure Utilization in Water Transmission Pipelines Considering Transient Conditions**, Water Distribution Systems Analysis 2010, Tucson, Arizona, USA.
29. **Walid Elshorbagy** (May 2010), "Integrated Urban Water Management in a New Coastal Developed Area in United Arab Emirates", ASCE 2010 World Environmental & Water Resources Congress, Providence, Rhode Island, USA
30. **Walid Elshorbagy**, Mohsen Sherif, Amr Sweedan, and Khaled Elsayy (July 2009). "Evolution of the Assessment of Educational Objectives of the Civil Engineering Program, United Arab Emirates University". 2nd International Multi-Conference on Engineering and Technological Innovation: IMETI 2009, Orlando, Florida, USA.
31. **Elshorbagy, Walid.** (March 2001) "Sustainable Planning of Water Resources Using Two-Stage Stochastic Programming Approach." Proceedings of WSTA Fifth Gulf Water Conference, Water Science and Technology Assoc., Doha, Qatar, VI, 59-74.
32. **Elshorbagy, W.A.**, and Mohamed, A.M.O. (April 2000). "Innovative Design and Modeling of Landfill Closure Cap in Arid Areas." First UAEU Research Conference, AlAin, United Arab Emirates
- Elshorbagy, W.A.**, and Mohamed, A.M.O. (March 2000). "An alternative Design of Landfill Closure Cap in Arid Areas." Proceedings of the International Conference on Geoenvironment 2000 (ICG2000), Muscat, Oman, March 2000.
33. **Elshorbagy, W.**, (September 1998). "Water Balance of Areas with Water Deficit: Case Study". Irrigation Improved Area in Egypt", Environmental Engineering and Management, Computational Mechanics Publications, Vol.3, 269-278.
34. **Elshorbagy, W.**, Lansey, K., and Yakowitz. D (August 1996). "Design and Operation of Engineering Systems Using Regularized Stochastic Decomposition" International Association for Hydraulic Research, Seventh International Symposium on Stochastic Hydraulics, Queensland, Australia.
35. Yakowitz, D., **Elshorbagy, W.**, and Lansey, K. (September 1995). "Modeling and Solving Water Resources Engineering Design Problems as Stochastic Programs to Account for an Uncertain Future." Proceedings of ASCS, Risk-Based Decision Making in Water Resources VII, Santa Barbara, California, Oct., 1995.

ii. Non-refereed Conference Proceedings

In the Coastal Environment Area

1. **Walid Elshorbagy** and Mohamed Abdul-Karim (January 2006). Impact Assessment of Refinery Wastewater on Desalinated Water. Third Joint UAE-JCCP Symposium on Sustainable GCC Environment and Water Resources (EWR2006), Abu Dhabi, UAE.
2. **Walid Elshorbagy** (November 2005). Overview of Marine Pollution in the Arabian Gulf with Emphasis on Pollutant Transport Modeling (Invited Keynote). ArabianCoast2005 Conference "1st International Conference and Exhibition on Coastal Zone Management and Engineering in the Middle East". Dubai, UAE.
3. **Walid Elshorbagy** and Mohamed AbdulKareem, (April 2005) "Pollutant transport modeling in Ruwais coastal industrial area in integration with the prevailing physical

and ecological conditions”, Sixth UAEU Research Conference, AlAin, United Arab Emirates.

4. **Walid Elshorbagy**, Mohamed AbdulKareem, Mir Hammadul Azam, (April 2004) “Impact assessment of refinery wastes on desalinated water in the UAE: Third-Year Progress”, Fourth UAEU Research Conference, AlAin, United Arab Emirates.
5. **Walid Elshorbagy**, Mohamed AbdulKareem, Mir Hammadul Azam, (April 2003) “Impact assessment of refinery wastes on desalinated water in the UAE: Second-Year Progress”, Fourth UAEU Research Conference, AlAin, United Arab Emirates.
6. **Walid Elshorbagy**, Mohamed AbdulKareem, Mir Hammadul Azam, (January 2003) “Impact assessment of refinery wastes on desalinated water in the UAE”, Proceedings of the Joint State of Kuwait-Japan Symposium, Kuwait.
7. **Walid Elshorbagy**, Mohamed AbdulKareem, Mir Hammadul Azam, (April 2002) “Impact assessment of refinery wastes on desalinated water in the UAE: First-Year Progress”, Third UAEU Research Conference, AlAin, United Arab Emirates.

In the Water Quality Area

8. Mohamed AbdulKareem and **Walid Elshorbagy** (April 2004) “Characterization of Oil Refinery Wastewater in Ruwais Area”, Fourth UAEU Research Conference, AlAin, United Arab Emirates.
9. Abdul-Hameed Arwani and **Walid Elshorbagy** (April 2003) “Overview of Advanced Modeling Techniques of the Activated Sludge Process”, Fourth UAEU Research Conference, AlAin, United Arab Emirates.
10. **Elshorbagy, W.** and Eid, N. (November 2000). "Electrochemical remediation of nitrate-contaminated sandy soil." Proceedings of the First International Conference of GEO2000 held on November 2000, College of Engineering, UAE University, ALAIN, United Arab Emirates, 625-631.
11. **Elshorbagy, W.A.**, Abu-Qdais, H. (November 1999). "Speciation of Chlorination By-Products in Pipe Networks of Drinking Water." Proceedings of the Second International Conference of Sustainability on Desert Regions, College of Engineering, United Arab Emirates University, ALAIN, 103-114.
12. **Elshorbagy, Walid** (October 1996). "Water Quality Dynamic Modeling in Distribution systems Using Different Approaches", The First Scientific Conference, Faculty of Science, Zagazig University, Egypt.

Other Research Areas

13. **Elshorbagy, W. A.**, Abu-Qdais, H., and Hamoda, F. M. (November 2000) “Modeling the Temporal Degradation of Municipal Solid Waste Compost.” Proceedings of the First International Conference of GEO2000 held on November 2000, College of Engineering, UAE University, ALAIN, United Arab Emirates, 577-583.
14. **Elshorbagy, W** and Eid, N. (November 1999). "Sustainability of Water Resources: A World Perspective." Proceedings of the 2nd Int. Conference of Sustainability on Desert Regions, College of Engineering, United Arab Emirates University, ALAIN, United Arab Emirates, 13-24.

ii. Presentations with Abstracts (no full-length papers)

1. **Walid Elshorbagy** (Invited Speaker). Impact of refinery wastewater on drinking water produced from nearby desalination plants in UAE and potential relevant

- applications. Water Management Technology for Petroleum Industry Seminar organized by ADNOC and JCCP, Abu Dhabi, UAE (June 2013).
2. Abubaker Awad ElHakeem and **Walid Elshorbagy (Speaker)**, Long-term Estimates of Temperature and Precipitation for Sustainable Planning in UAE, 2nd International Conference on "Global Warming: Sustainable Cities", Ras Al Khaima, UAE, May 2013.
 3. Abubaker Awad ElHakeem and **Walid Elshorbagy (Speaker)**, Future of desalination industry in the Arabian Gulf given the long term environmental and ongoing anthropogenic impacts, 2nd International Conference on "Global Warming: Sustainable Cities", Ras Al Khaima, UAE, May 2013.
 4. **Walid Elshorbagy** (May 2010). Improving the Performance of Thermal Desalination Plants While Considering the Impact on Coastal Environments. WaterTech 2010 Conference sponsored by the International Quality and Productivity Center "IQPC", Abu Dhabi, UAE (Invited).
 5. Plenary Speaker in the 2nd International Cooling Seawater Operators and Specialist Conference organized by Qatar Gas. "Contribution of coastal industrial discharges to chlorination by-products and their migration in seawater", Qatar, February, 2009.
 6. **Elshorbagy, W.**, Sweedan, A., Elsayy, K., and Sherif M.M. "Assessment of the Civil Engineering Program in UAE University Using Two Sets of Objectives". XI Best Assessment Practices Symposium, Indiana, USA, 2009.
 7. Key Speaker in the Water Summit 2007 "Desalination Prospective and Implications With The Coastal Environment, Sponsored by Schlumberger and Graduate Studies Deanship of UAEU, 2007
 8. **Walid Elshorbagy**, Cooling seawater impacts on desalination plants (Invited), International Cooling Seawater Specialists and Operators Conference, Doha, Qatar. June, 2006.
 9. **Walid Elshorbagy** (September 2005). Future of Desalinated Water Resources in United Arab Emirates and its Implications with the Coastal Environment (Invited Panel Speaker). Water Forum 2005, Abu Dhabi, UAE.
 10. **Elshorbagy, Walid.** (April 2005) "Hydrodynamic Processes of the Arabian Gulf: A Recent Overview". IOMEC conference "Indian Ocean Marine Environmental Conference: Linking Science, Engineering and Management, February 2005, Perth, Western Australia.
 11. **Elshorbagy, Walid.** (April 2005) "A Comprehensive Environmental Study of an Industrial Coastal Basin in United Arab Emirates". IOMEC conference "Indian Ocean Marine Environmental Conference: Linking Science, Engineering and Management, February 2005, Perth, Western Australia.
 12. Invited speaker in the Workshop of Environmental Cooperation of Arabian Countries in the Gulf Cooperation Council 'GCC' held on February 1998 and organized by Kuwaiti Environmental Protection Agency 'KEPA'.
 13. **Elshorbagy, W. A.**, (November 1997) "Optimizing the Degradation of Municipal Solid Waste Composts", Gulf Envirotech97 Conference, Abu Dhabi, United Arab Emirates.

iv Invited Talks

1. Invited to give a talk titled “Impact of refinery wastewater on coastal water and drinking water produced from nearby thermal desalination plants” in the Water Management in Oil and Gas Conference organized by IQPC, Abu Dhabi, UAE (June 2013).
2. Chairing a session in the second International Conference on "Global Warming: Sustainable Cities", Ras Al Khaima, UAE, May 2013.
3. Invited to visit Meijo University, Nagoya, Japan to give a talk on coastal environment and discuss collaboration in joint research, March 2012.
4. **Walid Elshorbagy** (May 2010). Improving the Performance of Thermal Desalination Plants While Considering the Impact on Coastal Environments. WaterTech 2010 Conference sponsored by the International Quality and Productivity Center “IQPC”, Abu Dhabi, UAE.
5. **Walid Elshorbagy** (February 2009). Plenary Speaker in the 2nd International Cooling Seawater organized by Qatar Gas. “Contribution of coastal industrial discharges to chlorination by-products and their migration in seawater”. Doha, Qatar.
6. **Walid Elshorbagy**. (February 2008). “Overview of Arabian Gulf Hydrodynamics and Its Circulation Conditions”. 7th International Conference on Coastal and Port Engineering in Developing Countries “COPEDC”, Dubai, UAE.
7. Key Speaker in the Water Summit 2007 “Desalination Prospective and Implications with the Coastal Environment, Sponsored by Schlumberger and Graduate Studies Deanship of UAEU.
8. **Walid Elshorbagy**. (June, 2006). Cooling seawater impacts on desalination plants (Invited), International Cooling Seawater Specialists and Operators Conference, Doha, Qatar.
9. **Walid Elshorbagy** (November 2005). Overview of Marine Pollution in the Arabian Gulf with Emphasis on Pollutant Transport Modeling (Invited). ArabianCoast2005 Conference “1st International Conference and Exhibition on Coastal Zone Management and Engineering in the Middle East”. Dubai, UAE.
10. **Walid Elshorbagy** (September 2005). Future of Desalinated Water Resources in United Arab Emirates and its Implications with the Coastal Environment (Invited). Water Forum 2005, Abu Dhabi, UAE.
11. **W. Elshorbagy**, M. Azam, and S. Mustafa (April 2005) “*Ecological characterization and simulation of a coastal industrial area in United Arab Emirates*”. Invited paper presented and published in the proceedings of the 7th Int. Conference on Modeling, Measurements, Engineering and Management of Seas and Coastal Regions (Coastal Engineering VII, 2005), Organized by WESSEX Institute of Technology, Portugal.
12. **Elshorbagy, W.**, Azam, M., AbdulKareem, M. (June 2003) “*Three dimensional modeling of an industrial coastal area in United Arab Emirates*”, Invited paper presented and published in the proceedings of the 6th Int. Conf. on Comp. Modeling and Experimental. Measurements of Seas and Coastal Regions (Coastal Engineering 2003), WESSEX Institute of Techn., Cadiz, Spain.

f. Websites

- Impact Assessment of Refinery Waste on Desalinated Water in United Arab Emirates, Website: http://www.engg.uaeu.ac.ae/walid.shorbagy/JCCP_b

g. Original Designs, Plans, Inventions, Software, and/or Patents.

Qualnet Software, **Walid Elshorbagy**: A Fortran Program developed in 1994 to track the chlorine in water distribution systems and upgraded in 1999 to track the Chlorination Byproducts in Water distribution systems. Utilized in student graduation projects in 1998 and in other research studies.

i. Research Grants.

1. **Walid Elshorbahgy (P.I)**, Tibor Pal (C.I), Yousef Hayek (C.I). (January 2014 – July 16). Using nano-particles in disinfecting desalinated water. Supported by UAEU, 431,000 AED.
2. Rezaul Chowdhury (P.I), **Walid Elshorbagy (C.I)**, Mwafaq Ghanama (C.I). (2013-Now). Project titled “Assessment of Decentralized Greywater Harvesting and Reuse Opportunity in Al Ain”, 258,400 AED.
3. **Elshorbagy, W. A (P.I)**, Mohamed AlZarouni (C.I), and Susan Richardson (C.I). (2012-2013). “Identification of the most suitable disinfection technologies applied on desalinated water in UAE”. NRF Supported by UAEU, 2nd-yr budget of 340,000 AED.
4. **Elshorbagy, W. A (P.I)**, Mohamed AlZarouni (C.I), and Susan Richardson (C.I). (2011). “Identification of the most suitable disinfection technologies applied on desalinated water in UAE”. NRF Supported by UAEU, 1st-yr budget of 340,000 AED.
5. **Elshorbagy, W.A**, Eid, N.M (C.I). (2010-2011). “Remediation of Brackish Groundwater Using Electro-dialysis Techniques”. Supported by UAEU, 20,000 AED.
6. **Elshorbagy, W.A. (P.I)**. (2008-2009). Optimizing Performance of Wastewater Treatment Plants in Abu Dhabi Emirate using Respirometry and ASM Modeling Techniques, Emirates Foundation, 200,000 AED.
7. **Elshorbagy, W.A. (P.I)**, Abd-elkareem, M., (May 2001-March 2005). “Impact Assessment of Refinery-Wastes on Desalinated Water in UAE”, Supported by Japan Cooperation Center, Petroleum (JCCP), 2,200,000 UAE Dirhams (\$582,000).
8. **Elshorbagy, W.A. (P.I)**, Galal, A.M. (February 2001-February 2002). “Development of a Novel Electrochemically Controlled Drip Irrigation System for Moisture and Nutrient Management in Arid Lands”, Supported by UAEU, 15,500 AED.
9. **Elshorbagy, W.A. (P.I)**, Mohamed, A.M.O, Kamaly, A.M. (February 1998- February 1999) “Innovative Design and Modeling of Landfill Closure Cap in Arid Areas”, Supported by UAEU, 14,500 AED.
10. **Elshorbagy, W.A. (P.I)**, Radwan, J.M, Qdais, H. A. (February 1997 – February 1998) “Integrated Quality Modeling and Management in Drinking Water Distribution Systems.”, Supported by UAEU, 15,000 AED.

j. Fellowships, Prizes, and Awards Given for Scholarship Achievements

1. Honored for recognizing the successful completion of a four-year research project titled “Impact Assessment of Refinery Wastewater on Desalinated Water in UAE”. Sixth UAEU Research Conference, AlAin, UAE (2005).
2. The Best Externally Funded Research Award in the College of Engineering, United Arab Emirates University, 4th Annual Research Conference, April 2003.

3. The Best Externally Funded Research Award in the College of Engineering, United Arab Emirates University, 3rd Annual Research Conference, April 2002.
 4. United States Agency for International Development (USAID), Fellowship for M.S Degree, 1989-1990.
 5. United States Agency for International Development (USAID), Fellowship for Ph.D Degree, 1991-1995.
 6. Graduate Honor Roll, Grade Average Point (GPA) of 4.0, Utah State University, 1989-1990.
 7. ENGINEER-In-Training, State Board of Technical Registration, State of Arizona, U.S.A, January 10, 1996.
 8. Excellency in Fortran Programming, Training Workshop, 1986, Computer Research Institute, Cairo, Egypt.
- k. Editorships, Editorial Boards, and Reviewing Activities for Journals and Other Learned Publications.
1. Associate Editor of the ASCE Journal of Water Resources Planning and Management: <http://ascelibrary.org/page/jwrmd5/editorialboard>
 2. Member of the International Scientific Advisory Committee of the 12th International conference on Modelling, Monitoring and Management of Water Pollution (Water Pollution 2014). Algarve, Portugal, May 2014. <http://www.wessex.ac.uk/14-conferences/water-pollution-2014.html>
 3. Member of the Review Board of the Scientific Journal International, Civil Engineering, Architectural, and Environmental Engineering; http://www.scientificjournals.org/editorial_board.htm
 4. Member of the Organizing/Scientific Committee of International Conference on Water in Arid Areas to be held in October 2012 and organized by Faculty of Science of UAEU (Ongoing).
 5. Member of the International Advisory Committee Water Distribution Systems Analysis International Specialty Conference, WDSA2010, Tucson, Arizona, USA, September 2010. <http://wdsa2010.org/home.html>
 6. Member of the International Program Committee of the IASTED Third and Fourth International Conferences on Environmental Modeling and Simulation, Organized by IASTED 2008 and 2009; <http://www.iasted.org/conferences/ipc-638.html>.
 7. Member of the International Advisory Committee of the 10th International Water Distribution System Analysis Conference, Organized by EWRI/ASCE, Kruger National Park, South Africa, August, 2008; <http://www.uj.ac.za/wdsa2008/Committees/tabid/6310/Default.aspx>.
 8. Member of the organizing committee of the 2009 Engineering Education Symposium organized by the College of Engineering, UAEU, AlAin, UAE, May 2009.
 9. A member in the International Scientific Advisory Committee of the Water Pollution Conference organized by WESSEX Institute of technology in Sept. 2006.

10. A member in the Scientific Committee in the Arabian Coast 2005 “1st International Conference and Exhibition on Coastal Zone Management and Engineering in the Middle East”, Dubai, November 2005.
11. A member in the International Scientific Advisory Committee of Int. Conference on Computer Modeling and Experimental Measurements of Seas and Coastal Regions (Coastal Engineering 2005), Organized by WESSEX Institute of Technology, Portugal.
12. A member of the seventh international scientific advisory committee of the Coastal Engineering Conference, Cadiz, Portugal, 2005.
13. A member of the fifth international scientific advisory committee of the Coastal Engineering Conference, Cadiz, Spain, 23- 25 June 2003.
14. A member in the organizing and scientific Committees of the Oil Pollution and its Environmental Impact on the Arabian Gulf Region, October 4th – 7th, 2003, United Arab Emirates University, AlAin, UAE.

1. Other Scholarship Achievements

1. Establishment of “Water and Environment Research Center- WECE”, M. Sherif (PI), Abdel Mohsen Onsy (Co-PI), **Walid El-Shorbagy (Co-PI)** and others to the National Research Foundation. The total approved fund is (Thirty seven million and five hundred thousand Dirhams over duration of five years). Contribution in writing the first-draft and in developing the final detailed proposal with other PIs.
2. Pre-Proposal to be submitted for joint funding by UAEU and Sultan Qaboos University. The project is titled “Connectivity among fish and invertebrate populations in the Arabian Gulf through Lagrangian larval dispersal modeling”, Michel Claereboutdt (PI), Department of Marine Science and Fisheries, College of Agricultural and Marine Sciences, Sultan Qaboos University, **Walid Elshorbagy** (PI), CEE Dept., UAE University (44,600 OR).
3. Individual Research Grant Proposal for the Academic Year 2007/2008 Presented to UAEU Research Affairs (November 2007). “Development of a Numerical Evaluation Tool for the Activated Sludge Process in Zakher Wastewater Treatment Plant Using ASM Modeling Techniques”, **Walid Elshorbagy** (PI), 30,000 AED. Accepted but not funded.
4. Contributed to a Regional Research Grant Proposal titled “Wave Atlas for the ROPME Sea” with a Section titled “Wind and Wave Conditions of United Arab Emirates”. The proposal is administered by Kuwait Institute for Scientific Research “KISR” and is currently under review.
5. Hydrographic Measurements and Hydrographic Modeling (230,000 Dhs). This proposal was written to be included in the proposal titled "Characterization of UAE Coastal Sea Water for RO Desalination Plants" submitted to Doosan Heavy Industries & Construction. Later, it was presented separate, March 2007.
6. Wrote a Chapter in a UNESCO Handbook of Integrated Urban Water Management in Arid and Semi-arid Regions (ASA), Edited by Larry Mays. The Chapter was titled a Case Study about United Arab Emirates developed in collaboration with Metcalf & Eddie Consultant in Dubai. However, it was not published due to failure of the consultant in furnishing the owner release for publication as was originally planned.

7. Long-Term Impacts of the Arabian Gulf Environment upon the Performance of Coastal Desalination Plants in the Gulf Countries (42,913 AED). A proposal written for the Arab Science and Technology Foundation. March 2007.
8. Ibrahim E H Belal (College of Food and Agriculture) & **Walid Elshorbagy**. Selecting potential sites for cage culture in United Arab Emirates on the Arabian Gulf and Sultanate of Oman Coast. Two-year research project jointly with Sultan Qaboos University, 300,000 Dhs, January 2006.
9. **Walid Elshorbagy**, Munjed Maraqa, Hasan Garamoon, AbdelAzeem Ibraheem, and Mahmoud Bakr (April 2006). Monitoring and Modeling of Ground Water in Dubai Emirate as a Part of the Thematic Maps Project. Five-year project proposal submitted to Dubai Municipality upon invitation from Chuden_CTI Company with a total budget of 1,544,700 Dhs in addition to external laboratory cost and drilling cost of new bore wells.
10. Co-authored (with Prof. Diao Elquosy) the Final Report “Strategic Research Project: "Mahmoudia Canal Improvement Project”, Water Distribution and Irrigation Systems Institute, Water Research Center, Egypt, August 1996.

3. Teaching, Mentoring, and Advising

a. Courses taught in the last five years.

Undergraduate Courses

1. Water Resources
2. Special Topics of Water Resources & Environmental Engineering
3. Introduction to Environmental Engineering
4. Chemistry & Eng. Applications (Application Part)
5. Environmental Engineering I
6. Math & Eng. App. IV (Application Part)
7. Graduation Project I & Graduation Project II

Graduate Courses

1. Water Resources
2. Hydraulics of Closed Conduits
3. Simulation of Hydraulics Systems
4. Operation Researches in Water Resources
5. Selected Topics in Water Resources
6. Water Quality
7. Water & Wastewater Treatment
8. Environmental Engineering
9. Selected Topics in Treatment & Desalination

b. Course or Curriculum Development.

Laptop-Developed Courses

1. Water Resources

Courses Offered and Developed for the First Time

1. Environmental Engineering II
2. Adv. Environmental Engineering
3. Water & Wastewater Treatment (Graduate)

4. Hydraulics of Closed Conduits (Graduate)
5. Simulation of Hydraulics Systems (Graduate)
6. Operation Researches in WR (Graduate)
7. Environmental Engineering (Graduate)
8. Solid Waste Management (Graduate)

Courses and/or Course Modules in Coastal Hydrodynamic Area

1. Independent Studies in WR (2003) “Modeling of Coastal Hydrodynamics”
2. Special Topics in WR (2003-Co-teaching)”Coastal Hydrodynamics”
3. One Module out of 3 on Coastal Engineering and Wave Theory (2005, 2007, 2008)

Contribution to Curriculum Development in UAE University

1. Curriculum of the Civil Engineering Master Program
2. Curriculum of the Water Resources Master Program
3. Curriculum of the Environmental Engineering Track in the CE Undergraduate Program (in review)
4. Curriculum of the Undergraduate Civil Engineering Program

Contribution to New Academic Programs in UAE University

1. College of Engineering PhD Program
2. Civil Engineering Master Program
3. Water Resources Master Program
4. Environmental Engineering Track in the CE Undergraduate Program (in review)

- c. Manuals, Notes, Software, Webpages, and Other Contributions to Teaching.
 - Personal Academic Website of Dr. Walid Elshorbagy:
<http://www.engg.uaeu.ac.ae/walid.shorbagy/>
 - Experimental Development in Water Resources, CD, Website, Educational Recorded Films, <http://www.engg.uaeu.ac.ae/walid.shorbagy/hydrolab/index1.htm>
- d. Teaching Awards and Other Special Recognition.
 1. Excellence in Engineering Education Award (July 2004), Software Grant worth of \$96,100) offered by MW Soft, Inc., California, USA.
 2. Winning an educational software grant of multi-user Windows-Based Computational Suite "CENESIS" – for simulating the Coastal Environments (Presented to the graduate study deanship). The software is presented by Chuden CTI Co., LTD on December 2005 as a fruit of the efficient joint research cooperation with the company during an earlier four-year externally funded research project. The software consists of three modules and worth of \$150,000. In addition to research, the software can be used in graduation projects and in teaching a new graduate elective course in the Water Resources Master Program (Coastal Hydrodynamics).
 3. Selected for inclusion in the Marquize Who's Who in Science and Engineering, 7th edition, 2003-2004, 9th edition 2006-2007.
 4. Faculty Advisor of the UAE team in the Design Contest of Waste Management Education and Research (WERC) held in New Mexico State University, Las Cruces, New Mexico, USA, April 1999, Awarded the following two prizes: [1] The Most Innovative Bench-Scale Design Award and [2] The Outstanding Participating University Award.

5. Educational Grant Award (February 2000), Free Software (worth of \$49,600) offered by MW Soft, Inc., California, USA.
- e. Advising: Other than Research Direction.
 - i. Undergraduate.
 - Academic advisor of several Student Batches since 1996 till now.
 - ii. Graduate.
 - Academic Advisor of new students and Plan-B students in the CE Master Program.
 - iii. Other advising activities (advising student groups, special assignments, recruiting, faculty mentorship, etc.)
 1. Mohammed Abdulla Alaidarous, Mohamed Khaled Basuwaid, Hamad Saeed Alketbi. Graduation Project Titled: Comprehensive Design of Landfill Disposal Facility for Domestic Solid Wastes of UAE (Fall 2013, Spring 2014).
 2. Abdul Rahman Alnuaimi, Sultan Al Aryani, Ahmed Al Mansouri, and Jumaa Al Dhaheri. "Graduation Project Titled: Upgrade of Zakher Wastewater Treatment Plant in AlAin to Meet Future Loadings". (Fall 2007, Spring 2008).
 3. Mosaed Almuhaideb, Saeid Alamry, and Ahmed Almansuri, "Graduation Project Titled: Design and Analysis of Stormwater Drainage System in a New Dubai Urban Development". (Spring 2006, Fall 2007).
 4. Nawras Nabeel, Ismail Mohammed, Ahmad Sallam, "Graduation Project Titled: Design and analysis of irrigation distribution system of Abu Dhabi Island". (Spring 2001, Fall 2002).
 5. Amro Farouk, Firas Beidas, Mayar Abbas, Mohd Shemayyel, and Mostafa Hashad, "Graduation Project Titled: Design of Wastewater Utilizes for a New Urbanized Area". (Fall 1999, Spring 2000).
 6. Mohammad Darwish, Mohammad Iqbal, Nabil Saleh, Osama Abdulrahman, and Zakareya AlKamali, "Graduation Project Titled: Innovative Closure Cap Design" (Co- supervision with Dr. A.M.O Mohammad). (Fall 1998, Spring 1999).
 7. Ahmed Helmi, Hani Zaki, and Mahmoud Al-Helo, "Graduation Project Titled: Modeling & Management of Al-Ain Water Distribution System". (Fall 1997, Spring 1998).
 - f. Advising: Research Direction.
 - i. Undergraduate.
 1. Supervising four undergraduate female students: Vasila AL-Khaldi, Afra Al Dhaheri, Muna Al-Azizi, and Haima AlAnsari in their research paper titled. "Global Challenges – Local Actions". "10th Inter College Environmental Public Speaking Competition". Organized by Emirates Environmental Group, Abu Dhabi, UAE (Nov. 2010).
 2. Supervising four undergraduate students: Manar Ayyad, Rula kamal abuBaker, Amer Ayyad, and Hazem Walid in their research paper titled. "Methods of Utilizing and Managing Wave Energy in UAE". "9th Inter College Environmental Public Speaking Competition". Organized by Emirates Environmental Group, Abu Dhabi, UAE (Nov. 2009).

3. Supervised an international exchange senior-undergraduate student from Waterloo University-Canada in four-month research study related to wastewater treatment (May-October 2008).
4. Supervised two students for their participation in the WERC International Environmental Design Contest in Las Cruces, New Mexico, USA (April, 1998). The students accomplished an outstanding achievement by winning an award of the best bench scale design out of eight participating teams, most of which were from American universities. This team also won another joined r award; that is the outstanding international team award.

ii. Masters

In the Water Quality Area

1. Laila Masoud Allssai, "Evaluating the Usage of Nanoparticles in Disinfection of Desalinated Water in United Arab Emirates", January 2014.
2. Imad Jumaa, " Removal of Selected Heavy Metals from wash-waters generated from ready-mix concrete trucks, Dubai, United Arab Emirates" Co-Advised by Dr Essam AbdelGawad, January 2009.
3. Nawras Radif, "Comprehensive analysis of the Activated Sludge Wastewater Treatment Processes Considering Optimization and Advanced Kinetic Modeling Techniques", June 2006.
4. Awbath Al-Jaberi, "Quantity and Quality Simulation of AlAin Water Distribution System", June 2006.
5. Abdulhameed Arwani, "Uncertainty/Reliability-Based Optimal Design of Conventional Activated Sludge Wastewater Treatment Processes", May 2003.

In the Coastal Environment Area

6. Abu Bakr Awad AlHakeem, "Modeling the Oil Spill in the Arabian Gulf Marine Environment and its Impact on the UAE Coastal Desalination Plants", Co-advised by Dr Rachid Chebbi, Jan. 2005.
7. Samer AlNahal, "Impact Assessment of Brine Disposal on Ruwais Coastal Marine Ecosystem: A Numerical Modeling Application", Co-advised by Dr. Waleed Hamza, January 2005.
8. Ahmed Helmi, "Optimal selection of the desalination plant intakes and outlets considering the environmental and hydrodynamic conditions prevailing in the UAE coastal water", Co-advised by Dr Mohamed Abdul Kareem, January 2005.

In Other Areas (Hydraulics and Solid Waste Management)

9. Rami Azam, "Investigation of replacing transient protection equipment with elastic pipes in water networks using surge simulation", 2012-now (ongoing).
10. Hazem Bakry AlNaser, Maunsel Co., Evaluation and Upgrading the Existing Fujairah Transmission Pipeline Using a Detailed Transient Analysis, January 2009.
11. Mohammed Sultan, "Pressure Utilization in Water Transmission Pipelines in AL AIN Region Considering Transient Conditions", Co-advised by Prof Mohsin Sherif, June 2007.
12. Abd-Elkadir AlKamali, "Solid Waste Management in Oil and Gas Industries: Application to ASAB Oil Field", Co-advised by Prof Essam AbdulHafiz, May 2001.

iii. Doctoral

1. Abu Baker Awad Elhakeem, PhD Dissertation in the Water Resources Graduate Program titled "Evaluation of climate change and coastal effluents effects on the long-term Gulf circulation and its impacts on the future of coastal desalination with special reference to the UAE using hydrodynamic and GIS modeling", (August 2014).
2. Khalid AlZahid, Dubai Municipality, Co-advisor of Ph.D thesis titled "Coastal Zone Management of Dubai Coast in Association with Ecological Conditions" (2007). Co-advising with Prof David Paterson, St Andrew University.

g. Pedagogical Publications and Presentations

- Elshorbagy, W., Sherif M.M, Sweedan, A., and Elsayy, K., Evolution of Educational Objectives Assessment of the Civil Engineering Program, United Arab Emirates University" (Refereed Paper), International Symposium on Engineering Education and Educational Technologies, EEET 09, 10-13 July, Orlando Florida (Attachment T11). <http://www.iiis.org/CDs2008/CD2009SCI/EEET2009/PapersPdf/Q581QX.pdf>.
- Elshorbagy, W., Sweedan, A., Elsayy, K., and Sherif M.M. "Assessment of the Civil Engineering Program in UAE University Using Two Sets of Objectives". XI Best Assessment Practices Symposium, Indiana, USA, April 2009.
- Khaled M. El-Sawy and Walid Elshorbagy. "Efficient Development and Administration of Exit Exams for the Engineering Programs". Symposium on Engineering Education, UAE University, Al Ain, 16-18 May 2009.
- Elshorbagy, W., Sweedan, A., Elsayy, K., and Sherif M.M, "Development of the Assessment Process for the Civil Engineering Program of the United Arab Emirates University". Symposium on Engineering Education, UAE University, Al Ain, 16-18 May 2009.

4. Service

a. Professional

i. Offices and committee memberships held in professional organizations.

1. Member of the Advisory Panel of the Arab Health Water Association 'AHWA' <http://www.mgwater.com/advisory3.shtml#uae> (2006-now).
2. Member in the Magnesium Committee of the Arab Health Water Association 'AHWA'. <http://www.mgwater.com/arabhwa.shtml#mgcomm> (2007-Now).
3. Invited and participated in the EIA Panel Experts for the review of Environmental Impact Assessments (EIA) by the regulated community, Environment Agency – Abu Dhabi (EAD), formerly, the Environmental Research and Wildlife Development Agency (ERWDA), April 2006.
4. Member of the International Association for Hydro-Environment Engineering and Research (IAHR).
5. Member in the Association of Environment Friends – UAE.
6. Member in the Society of Engineers, UAE
7. Member in the Egyptian Society of Engineers.

ii. Reviewing activities for agencies.

1. Reviewer of Research Grants in Qatar National Research Foundation, 2013-Now.
 2. Member of the CEE Department Committee for Faculty Performance Evaluation (conducted faculty evaluations for Ac. Yr 2009-2011 and Ac. Yr 2011-2013).
 3. Evaluation of promotion cases in American University of Sharjah and in King AbdulAziz University
 4. Peer reviewer for the Kuwait National Foundation (attached).
 5. A member in the referee list of King Saud University, Field of Hydraulics and water resources
 6. Peer reviewer for Sultan Qaboos University.
 7. Refereed a research study for the Crown Prince Prize for Scientific Research, Bahrain Centre for Studies & Research, March 2006.
 8. Refereeing a research study for the Cultural& Scientific Association, March 2005.
 9. Evaluated several individual research proposals (requested by the CEE Department Research Committee).
 10. Evaluated several papers for the possible Award of the UAEU Annual Research Conferences (requested by the CEE Dept. Research Committee).
 11. Reference for several graduates applying for jobs inside and outside UAE
- iii. Other unpaid services to local, state, and federal agencies.
Session Chair and Moderator in several local, regional, and international conferences.
- iv. Refereeing Research Papers Submitted for Publication
In Water Quality and Waste Management Area
- 3 papers in Elsevier Journal of Hazardous Materials (2008, 2009).
 - 2 papers in Elsevier Waste Management Journal (2007).
 - 5 papers in the Univ. of Sharjah J. of Pure Science and Technology (2006-2007).
 - one paper in the ASCE Environmental Engineering Journal (2006).
 - one paper for the ASCE/Environmental Engineering Journal (January 2006).
 - one paper for the Int. J. of Computers and Applications, (September 2004).
- In Coastal Environment Area
- 5 papers in the Journal of Environmental Management (2007, 2009, 2010).
 - 2 papers in Emirates Journal (2009).
 - 2 papers for the Iranian Journal of Science and Technology (2006, 2007).
 - 2 papers in the Journal of Desalination (2008).
- v. Professional Programs off-Campus
1. Participation in one-day workshop on the water security and connecting water supply systems in the Gulf Area. AbuDhabi, September 2013.
 2. Participation in a Three-Day Professional Regional Workshop “Usage of WEAP Program on Water Assessment and Planning Systems”, Organized by General Protection Agency of Marine Resources, Environment, and Wild Life in Bahrain, Arabian Gulf University, Bahrain, September 2009.

3. Teaching a 3-CrHr Course “Engng Hydrology”, Civil Engineering Department, Al-Hosn University, Abu Dhabi, United Arab Emirates, Summer 2008.
 4. Attended the Water Security Workshop organized by Dubai Police Academy, Dubai, UAE, February 2008.
 5. Delivered an eight-week training course titled "Operation Research in Water Resources" to the Water Research Center of ADWEA in Abu Dhabi during February and March of 2007 under the supervision of the University Continued Education Center.
 6. Attended a workshop on "Localization of Desalination Technologies: A Foundation for Sustainable Development" organized by Alexandria University Desalination Studies and Technology Center (ADST) and Abu Dhabi Water and Electricity Authority (ADWEA) on March 2006.
 7. Writing articles in the Engineering World Magazine issued by the Society of Engineers-UAE, 2004.
- vi. Other non-University committees, commissions, panels, etc.
- Invited and participated in the EIA Panel Experts for the review of Environmental Impact Assessments (EIA) by the regulated community, Environment Agency – Abu Dhabi (EAD), formerly, the Environmental Research and Wildlife Development Agency (ERWDA), April 2006.
 - Invited Speaker in a panel session titled “Zoning for Industrial and Urban Development” during the Environment 2001 Conference and Exhibition, Abu Dhabi, UAE, February 2001
- vii. Paid consultancies.
1. **Walid Elshorbagy** (PI), Mohamad Mostafa, Rezaul Chowdhury, in collaboration with LEEDS University of UK (1.76 Million AED). “Developing a Dynamic Approach to Water Budgeting for the Emirate of Abu Dhabi”. Sponsored by Environment Agency of Abu Dhabi (2015).
 2. **Elshorbagy, Walid** (22,100 Dhs). "Collaboration in Developing Environmental Guidelines for Brine Discharges from Desalination Plants". The International Center for Biosaline Agriculture, ICBA, UAE (June 2012).
 3. **Elshorbagy, Walid** (22,100 Dhs). "Characterizing tides in Abu Dhabi to Identify Suitable Location for WL Locations". YSI Nanotech Co. Ltd. , February, 2011.
 4. **Elshorbagy, Walid**. (60,000 Dhs). Environmental Health Strategy for the UAE, Consulting Services to the University of North Carolina at Chapel Hill, Jan 2009.
 5. **Elshorbagy, Walid**., El-Mowafi, Ahmed. (263,000 Dhs). “Bathymetric Survey of Nurai Island” Zaya Ltd., Abu Dhabi, October 2008.
 6. **Elshorbagy, Walid**., Maraqa, Munjed (12,000 Dhs). "Evaluation of Ecobilles Zero-Waste Technology for Abu Dhabi Solid Waste Management". Ecobilles International Inc., June 2006.
 7. **Elshorbagy, Walid**. (8,000 Dhs). “Purification of a Coastal Marina in Dubai Creek- United Arab Emirates Using NANO1 System” NANOS-Gulf Holding Company, October 2005.
 8. **Elshorbagy, Walid**. (12,000 Dhs). “Evaluation of NANO1 PUBBLE Diffuser System to Purify a Coastal Marina in Dubai Creek- United Arab Emirates Using NANO1 System” NANOS-Gulf Holding Company, September 2005.

b. Campus

i. Departmental.

1. Chair of the CE Dept. Outcome Assessment Committee (2005-2012).
2. Active contribution to the ABET Accreditation in 2004 and 2010. Participating in preparation for ABET Visit in October 2004 (Assessment Sheets, Course Files, Meetings, Laboratories Preparation). For ABET preparation in 2010, my contribution is reflected in writing two major chapters in the self-study report (II. Objectives and IV. Continuous Improvement), major revision of Chapter III: Outcomes (originally written and developed based on the Annual Assessment Reports developed by the Outcome Assessment Committee I am chairing), in addition to supervising the course files and outcomes folders.
3. Member of the Performance Evaluation Committee, 2011-Now.
4. Director or of the Civil Engineering Master Program, 2007-2010.
5. Chair and member of screening committees to evaluate new applicants to CEED faculty positions in WR and Env. Engng. Areas (2003, 2008, 2011).
6. Chairing a committee to develop the Department Strategic Plan (Fall 2011).
7. A member of the CE Dept. Preparation Committee for the Engineer Day during the years 1997, 1998, and 2000.
8. Member of the CE Dept. Laboratory Committee (1998-2002).
9. Chair of the CE Dept. Laboratory Committee (2005-2008).
10. Member of the Department Lab Committee (2006-2009), presenting several quotations for new equipment in the Hydraulics and Environmental Engineering Labs, preparing for needed new equipment in Maqam Campus, arranging for needed equipment to be moved to the new labs in the new campus.
11. Member of the CE Dept. Scientific research and GS Committee (97-2002).
12. Chair of the CE Dept. Graduate Studies Committee (2003-2010).
13. Member of the CE Dept. Outcome Assessment Committee (1999-2004).
14. Chair of the CE Dept. Seminars and Activities (1999-2000).

ii. College

1. Member of the Peer Teaching Evaluation “PET” Faculty Committee, 2010-Now.
2. Member of the College Board (Associate Professors' Representative), 2007-2009.
3. Chairing a college committee in developing a PhD program for the college of Engineering, October 2005-2008.
4. Chairing a college Ad-Hoc Committee to update and follow up the Proposal of the PhD Program.
5. Chairing the College Outcome Assessment Committee, 2010-Now.
6. Member of the College Outcome Assessment Committee, 2006-2010.
7. A member of the college committee of developing and evaluating the skills of teaching methods during the year 2000/2001.
8. A member of the college committee of graduate studies during the year 2000/2001.
9. Member of the College Educational researches and international activities (1999-2002).
10. College academic coordinator for the Math and Engineering Applications Courses during the period of September 1996 to July 1999.

iii. University

1. Chair of Water Resources Master Program, 2011 - now.
2. Member of the executive committee of the National Water Centre (NWC). Contributed to the development of its operational plan including target research project.
3. Member of the executive committee for the Water Resources Master Program. 1999 to Now.
4. A member in the University Committee "Personnel Appointment in the College of Medicine" (2004-2005, 2005-2006) in which several meetings have been held to evaluate the new appointments.
5. A member in the Personnel Committee of the College of Medicine of United Arab Emirates University, 2002-2006.
6. Member of the University Educational Outcomes Assessment during the period of September 1999 to July 2000.

iv. Special administrative and service assignments

1. Chairing a department committee to develop the CEE Dept. Strategic plan (October, 2011).
2. Chair of the Ad-hoc college committee to update and follow up on the PhD proposal (2008-2009).
3. Member of the College Board (2007-2009) representing the Associate Professors. Acting Secretary of the Board for the Academic Year 2007-2008 responsible for documenting the minutes of bi-weekly meeting. Also contributed to scoring the Former College Strategic Plan (2001-2007) based on six annual college reports, contributing to forming Goal 9 of the new College Strategic Plan, contributing to the SWOT analysis conducted in 2008-2009 as a starting effort to develop the new college strategic plan for 2009-2014.
4. A member in the screening and interviewing committees for new applicants to the Env. Science, Water Resources, and Civil Engineering Master Programs.
5. Participating in organizing the Environment Conference & Exhibition 2005 held in Abu Dhabi, February 2005 and being recognized for that effort during the Sixth UAEU Research Conference.
6. Contributing to developing a Training Program proposal for ADWEA technicians (led by Prof. Reyadh AlMehaidab) by proposing outlines of several course components (2004-2005).
7. Carrying out a thorough evaluation of the University Draft Policy for new academic programs, research centers, graduate scholarships, etc. (2004-2005).
8. Participation in the Industrial Training Programs (since 2000) including the site visits, grading reports, and attending the final presentations.
9. A member in the organizing committee of the Water Summit organized by the Water Resources Master Program, United Arab Emirates University, AlAin, March 2007.
10. Posting an Arabic Article in AlBayan Newspaper related to Completed Graduate Studies (03-2005).
11. Chair and moderator of several sessions in international, regional, and local conferences.

v. Faculty professional development

1. Attend "CurricUNET" Workshop COE, April 21st to 21rd, Monday April 22, 2013 from 14:00-15:30.
2. Organizing and presenting a one-day workshop to the new faculty joining the CEE Dept. on Course Outcome Assessment and other ABET-Related Activities (March 2006, April 2008, and September 2009).
3. Member in the Organizing Committee of the Symposium on Engineering Education, UAE University, Al Ain, 16-18 May 2009.
4. Attended the Entrepreneurial Leadership Workshop organized by Research Affairs, UAEU, December 12 to December 17, 2007.
5. Member in the Organizing Committee of the Oil Pollution and Its Environmental Impact in the Arabian Gulf Region Conference organized by the Faculty of Science, UAEU, October 2003.
6. Member in the Organizing Committee of the Second International Conference of Sustainability on Desert Regions, College of Engineering, United Arab Emirates University, AlAIN, United Arab Emirates (November 1999).
7. Organizing several scientific seminars presented by speakers from outside the university and inviting faculty as well as students to attend. Samples of these seminars are given below:
 - Impacts of the Last Tsunami on the Indian Ocean by Prof. Charitha Pattriachi, University of Western Australia, January 17th, 2005.
 - Ocean and Coastal Wave Modeling by Prof. Vijay Panchang, Chair of the Maritime Systems Engineering Dept., Texas A&M University, January 17th, 2005.
 - Tsunami Effects on coastal structures & Post Tsunami field surveys. Presented by Prof. V.Sundar, Prof. R. Sundaravadivelu, Dr. S.A. Sannasiraj, Dr. K. Murlai, Department of Ocean Engineering, Indian Institute of Technology, MADRAS on November 26th, 2006.
 - Developing Regional Strategies for Water Resource Management. Presented by Prof. Gregory W. Characklis, Dept. of Environmental Sciences and Engineering, University of North Carolina at Chapel Hill, February 9th, 2009.
 - Emerging Environmental and Water Contaminants: Current Issues. Presented by Dr. Susan Richardson, Senior Research Chemist, Ecosystems Research Division, U.S. EPA, Athens, GA, USA, March 2011.
 - Introduction to Hydrodynamic Modeling at Deltares and Selected Research Examples. Presented by Eng. Daniel Rudolph; Head of Department, Industrial Hydrodynamics, Hydraulic Engineering Unit, Deltares Inst., Netherland. April 2011.

vi. Students' Advising and Extracurricular Services

1. Academic advisor of several Student Batches since 1996 till now.
2. Academic Advisor of new students and Plan-B students in the CE Master Program.
3. Supervising four undergraduate female students: Vasila AL-Khaldi, Afra Al Dhaheri, Muna Al-Azizi, and Haima AlAnsari in their research paper titled. "Global Challenges – Local Actions". "10th Inter College Environmental Public

- Speaking Competition”. Organized by Emirates Environmental Group, Abu Dhabi, UAE (Nov. 2010).
4. Supervising four undergraduate students: Manar Ayyad, Rula kamal abuBaker, Amer Ayyad, and Hazem Walid in their research paper titled. “Methods of Utilizing and Managing Wave Energy in UAE”. “9th Inter College Environmental Public Speaking Competition”. Organized by Emirates Environmental Group, Abu Dhabi, UAE (Nov. 2009).
 5. A member in the organizing committee of the Environmental Design Competition (EDC2000, EDC2002, EDC2004, and EDC2006). Active participation in all organizing meetings in addition to formulating several contest problems posted in the competitions.
 6. Presented a Scientific Documentary Movie during the Department Female Student Association Workshop about Mega Civil Engineering Projects; May 2008.
 7. Nominated and accompanied six students form the Dept. to attend 7th International Conference on Coastal and Port Engineering in Developing Countries “COPEDEC”, Dubai, UAE (2008).
 8. Supervised a trip to the 5-K Exhibition in Dubai (November 2007).
 9. Organized a number of scientific seminars attended by the faculty and students as well (see section S4).
 10. Attending all student celebrations and graduation gatherings like ASCE chapter and Dept. CE Association.
 11. Regularly organizing field visits to the students enrolled in different undergraduate Water Resources and Environmental Engineering courses.
 12. Supervised an international exchange senior-undergraduate student from Waterloo University-Canada in four-month research study related to wastewater treatment (May-October 2008).
 13. Supervised two students for their participation in the WERC International Environmental Design Contest in Las Cruces, New Mexico, USA (April, 1998). The students accomplished an outstanding achievement by winning an award of the best bench scale design out of eight participating teams, most of which were from American universities. This team also won (with another team from UAEU) another award; that is the outstanding international team award.
 14. Participation in the Industrial Training Programs (in regular basis) including the site visits, grading reports, and attending the final presentations.
 15. Member of several examination committees for the college graduation projects.
- vii. Orientation and Supportive Services for New Students
1. Giving presentations in the graduate seminar of the Civil Engineering Master Program to the new admitted students about potential research topics (Sept. 2007, 2008, and 2009).
 2. Giving presentations in the graduate seminar of the Water Resources Master Program to the new admitted students about potential research topics (1998 till 2006).
 3. Giving presentations about the Civil Engineering Discipline for the new engineering students seeking specialization (2004, 2006).
 4. Academic advisor of several Student Batches since 1996 till now.

5. Academic advisor of new students and Plan-B students in the CE and WR Master Programs.
- c. Community, Local, and National
1. Attend a workshop on Revised GSS Water Grid Study on September 8th, 2013 in AbuDhabi.
 2. Contributing to articles published in The National newspaper about water quality and treatment in UAE.
 3. Participation in a Three-Day Professional Regional Workshop “Usage of WEAP Program on Water Assessment and Planning Systems”, Organized by General Protection Agency of Marine Resources, Environment, and Wild Life in Bahrain, Arabian Gulf University, Bahrain, September 2009.
 4. Teaching a 3-CrHr Course “Engineering Hydrology”, Civil Engineering Department, Al-Hosn University, AbuDhabi, United Arab Emirates, Summer I Term, 2008.
 5. Delivered an eight-week training course titled "Operation Research in Water Resources" to the Water Research Center of ADWEA in Abu Dhabi during February and March of 2007 under the supervision of the University Continued Education Center.
 6. Attended a workshop on "Localization of Desalination Technologies: A Foundation for Sustainable Development" organized by Alexandria University Desalination Studies and Technology Center (ADST) and AbuDhabi Water and Electricity Authority (ADWEA) on March 2006.
 7. Chair and Member in several CE Dept. Screening Committees to inspect the applications of new faculty applications (1997, 1998, 2000, 2003, 2011).
- d. Service Awards and Honors.
1. Recognition for the contribution in organizing the Symposium on Engineering Education, UAE University, Al Ain, May 2009.
 2. Recognition for the contribution in organizing the Environmental Design Contest, College of Engineering, UAE University, 2002, 2004, 2006.
 3. Recognition for the contribution in organizing the Second International Conference of Sustainability on Desert Regions, College of Engineering, United Arab Emirates University, AlAIN, United Arab Emirates, November 1999.