

## CURRICULUM VITAE

### Ahmed Abd-Allah El-Shafei, Ph.D.



**Date of birth** : October 28, 1972  
**Nationality** : Egyptian  
**Sex** : Male  
**Marital status** : Married  
**Current Occupation** : Professor at Agricultural Engineering Dept.,  
 College of Food & Agricultural Sciences,  
 King Saud University.  
**Address** : King Saud University,  
 College of Food and Agricultural Sciences,  
 P.O. Box 2460 Riyadh 11451,  
 Kingdom of Saudi Arabia.  
**Major** : Water and Irrigation Systems Engineering.  
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**Occupation in Egypt** : Professor and Former Head of Department of  
 Agricultural and Biosystems Engineering,  
 Faculty of Agriculture, Alexandria University.  
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**Google Scholar** : <https://scholar.google.com/eg/citations?hl=en&imq=Ahmed+El-Shafei&user=u9kqgA8AAAAJ>  
**Scopus ID** : <http://www.scopus.com/authid/detail.url?authorId=56669478700>  
**LinkedIn** : <https://www.linkedin.com/in/ahmed-el-shafei-99289428/>  
**Research Gate** : <https://www.researchgate.net/profile/Ahmed-El-Shafei>  
**ORCID ID** : <http://orcid.org/0000-0001-5225-3219>  
**Web of Science Researcher ID** : ABB-5505-2020  
<https://www.webofscience.com/wos/author/record/ABB-5505-2020>

## EDUCATION & ACADEMIC RECORD

**Ph.D., Civil Engineering**  
 10 / 1998 to 09 / 2001

**Saga University, Saga, Japan**

**Major** : Civil and Environmental Engineering.

**M.Sc., Agriculture Sciences**  
10 / 1996 to 09 / 1998

**Thesis :** “Geo-environmental and Geotechnical Assessments of Nitrate Polluted Soil”  
**Saga University, Saga, Japan**

**Major :** Agricultural Environmental Engineering

**Thesis :** “Influence of salinity on physical and geotechnical properties of Ariake clay”

**B.Sc., Agriculture Engineering**  
10 / 90 to 06 / 94

**Alexandria University, Alexandria, Egypt**

**Major :** Agricultural Engineering

**Project :** Cylinders Flour Mills Engineering

**Grade :** Excellent with Degree of Honor

## **ACADEMIC EMPLOYMENT**

**Professor .**  
7 / 2 / 2019 to date

Agricultural Engineering Department,  
College of Food & Agricultural Sciences,  
King Saud University.

**Head of Department.**  
8 / 2017 to 6 / 2 / 2019

Agricultural and Biosystems Engineering Department,  
Alexandria University, Alexandria, Egypt

**Professor**  
8 / 2016 to date

Agricultural and Biosystems Engineering Department,  
Alexandria University, Alexandria, Egypt

**Associate Professor**  
12 / 2009 to 8 / 2016

Agricultural and Biosystems Engineering Department,  
Alexandria University, Alexandria, Egypt

**Assistant Professor**  
10 / 2001 to 11 / 2009

Agricultural Engineering Department, Alexandria University,  
Alexandria, Egypt

### **Teaching Courses:**

**From 10 / 2001 to date**

### **Post-Graduate Courses:**

- Fundamental of the transport of fluid in porous media
- Management and Scheduling of Irrigation Water
- Design and evaluation of water and soil conservation systems
- Water quality modeling.
- Finite difference modeling for heat and water transport.
- Numerical analysis and finite element method
- Computer application in numerical analysis
- Advance soil mechanics
- Engineering and Management of Landscape Irrigation
- Advanced Sprinkler and drip irrigation systems
- Designing & evaluating surface irrigation systems
- Desalination and water treatments

### **UNDER GRADUATE COURSES:**

- Hydraulic of wells and Pumps
- Trickle and Sprinkle Irrigation Systems
- Systems Engineering of Water and Irrigation

- Fundamental Agricultural and Biosystems Engineering
- Calculus
- Statics and Dynamics
- Theory of Function
- Engineering Drawing
- Machine Drawing
- Computer and Programming
- Fluid Mechanics
- Hydraulics
- Hydraulics Machines
- Irrigation and Drainage Engineering
- Design farm irrigation Systems
- Development Irrigation Systems
- Fundamental of Microcontroller

***Research & Teaching  
Assistant***

*04 / 99 to 04 / 2001*

**Civil Engineering Department, Saga University, Saga,  
Japan**

- Lecture assistant for undergraduate course:  
Research Project Plan.
- Conducting experimental work “Geotechnics of soil-  
contaminant interactions” for my doctoral thesis.

***Research & Demonstrator***  
*10 / 94 to 09 / 96*

**Agricultural Engineering Department, Alexandria  
University, Alexandria, Egypt**

- Demonstrator for undergraduate courses:
  1. Engineering Drawing.
  2. Static and Dynamic (Mechanics).
  3. Surveying.
  4. Farm Machinery.
  5. Farm Buildings.
  6. Food Engineering.
  7. Irrigation Systems
  8. Internal Combustion Engines.
  9. Tractors.
  10. Summer Practice.
- Share in some experiments with the Lab. Group.

## **PROFESSIONAL EXPERIENCE**

### **Conference Organization**

25/11/2017      Rapporteur (Co-Chairman) of the:  
21<sup>st</sup> Conference of the Egyptian Society of Agricultural Engineering,  
entitled of: New Technologies in Agricultural and Biosystems  
Engineering and their Applications for Supporting Sustainable  
Development. Faculty of Agriculture, Alexandria University.

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### **Training In:**

#### **Faculty Leaderships Development Center, Alexandria University**

Associate Trainer (The International Board of Certified Trainers; IBCT).

Certificate code: IBCT-MENA-AT-2013/C828, April 11, 2013)

<i>1/2010 to date</i>	<p>Trainer at Faculty Leaderships Development Center (FLDC), Alexandria University for the following programs</p> <ul style="list-style-type: none"> <li>- Organizing Scientific Conferences.</li> <li>- Quality Standards in the Educational Process.</li> <li>- Using of Technology in Teaching</li> <li>- The Credit Hours Systems</li> <li>- Project Management, Evaluation and Monitoring</li> <li>- References Research Management Systems</li> <li>- University Code of Ethics</li> <li>- Innovative in Problem Solving and Decision Making.</li> </ul>
<i>3/2011 to date</i>	<p>Trainer at Pathways to Higher Education, Egypt, Center for Advancement of Postgraduate Studies and Research, Faculty of Engineering, Cairo University (CAPSCU) for the following program</p> <ul style="list-style-type: none"> <li>- Argumentation: Techniques of Measurement and Development.</li> </ul>
<i>9/2015</i>	<p>Trainer of human development courses under title of prepare the graduate students for the job market, at General Administration of Youth Welfare, Alexandria University.</p>

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### **Field of Modern Irrigation and Drainage Engineering**

<i>1-3/4/2019</i>	<ul style="list-style-type: none"> <li>- Organizer and Trainer in a workshop entitled “Smart Irrigation and Central Control Systems for Landscape Irrigation Systems” with a cooperated between Department of Agricultural Engineering, College of Food and Agriculture Sciences, King Saud University, KSA and Rain Bird Company, USA.</li> </ul>
<i>2006 to 2/2019</i>	<p>Trainer in field of modern irrigation and drainage networks systems for the following:</p> <ul style="list-style-type: none"> <li>- Project of training agricultural engineers working in governorate of Alexandria.</li> <li>- Bustan Agricultural Development Project (BADP) – European Commission No. SEM/02/220/039- SEM/03/220/042.</li> </ul> <p>Development and Cooperative Training Project in the New Land (for farmers at region of Nubaria and El-Bostan, El-Behera, Egypt) – Ministry of Agriculture and Land Reclamation.</p>

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### **PARTICIPANT IN THE FOLLOWING PROJECTS**

10/2020	Co. project Manager (Co. P.I.) ID001-001-01-17-3 sponsored by National Science, Technology and Innovation Plan, King Abdulaziz City for Science and Technology (KACST) entitled “Hydrologic Characteristics and Flood Risk Analysis for Major Watersheds in the Arabian Peninsula”
10/2020	Member at project ID: 13-WAT1152-02 sponsored by National Science, Technology and Innovation Plan, King Abdulaziz City for Science and Technology (KACST) entitled “Integrated Web-based Program for Water–Energy Management and Conservation in Irrigated Areas”
09/2017	- Member at project ID 27700 “Institutional Linked Grants (Newton Fund Call 2016)” sponsored jointly by British Council and Science and Technology Development Fund (STDF) entitled:

- 07/2012 “An Innovative Solar Powered Water Desalination System Using Fibre Membranes (Solar-Water)”  
- Member at project ID 4060 sponsored by Science and Technology Development Fund (STDF) Targeted calls “TC/ 6/Water/ 2010/water call Targeted Call VI Water Desalination: entitled “An Innovated Technique for Desalination Of Sea Water by Purge-Air Pervaporation Using Novel Fabricated Membranes”
- 07/2012 - Member at Project ID 4067 sponsored by Science and Technology Development Fund (STDF) Targeted calls “TC/ 6/Water/ 2010/water call Targeted Call VI Water Desalination: entitled “A Novel Technique For Desalination Of Sea Water Using Hollow Fibre-Contained Liquid Membrane Permeators”
- 02/2004-04/2006 - Co. Project Manager (Co. P.I.) of: Higher Education Enhancement Project Fund (HEEPF):  
Development of Agricultural Engineering Lab Course for The Agricultural Applications Of Solar And Wind Energy Systems
- 2005 - Member at: Project of Agric. Eng. Dept., Agricultural Faculty, Alexandria University, Alexandria, Egypt.  
Introduced to sponsored by Academic Research Center.  
"Development of Portable Unit for Farm-Mode Feeds Using Agricultural Crop Wastes".
- 02/2004 - Member at: Project of: Higher Education Enhancement Project Fund (HEEPF):  
Development of A Comprehensive Program Of Higher Education In Agricultural Engineering

## TECHNICAL PUBLICATIONS

On 22 October 2022:

h-index (Google scholar): 10, Citations (Google scholar): 365.

h-index (Scopus): 7, Citations (Scopus scholar): 217, Document (Scopus): 21.

Research Gate: Research Interest Score: 368.3, Citations: 307, h-index: 9.

Web of Science (publons): Publications: 21, Citations: 189, h-index: 7.

### Thesis

*Ahmed Abd-Allah El-Shafei*

“Geo-environmental and Geotechnical Assessments of Nitrate Polluted Soil”, Ph.D. thesis, Department of Civil Engineering, Faculty of Engineering, Saga University, Saga, Japan, Sep. 2001.

*Ahmed Abd-Allah El-Shafei*

“Influence of salinity on physical and geotechnical properties of Ariake clay”, M. Sc. thesis, Faculty of Agriculture, Saga University, Saga, Japan, Sep. 1998.

### Patents

*M. M. Naim, M.M. Elewa, A.A. Moneer, A.A. El-Shafei, M. Yehia et al., (Feb. 2017)*  
Desalination of Sea Water Using Pervaporation

Patent No.: EG27868, Application No.: 2012061089, Filing Date: 13/6/2012.  
International Patent Classification (IPC): Int.Cl.8-B 01 D 61/36;C 02 F 103/08;B 01 D 71/16.

*M. M. Naim, A.A. Moneer, M.M. Elewa, A.A. El-Shafei, M. Yehia. (Apr. 2017)*  
Desalination of Simulated Seawater Using an Innovative Emulsion Liquid Membrane Technique.  
Patent No.: EG27920, Application No.: 2013101534, Filing Date: 2/10/2013.  
International Patent Classification (IPC): Int.Cl.8-B 01 D 61/40;C 02 F 1/58;C 02 F 1/26.

*M. M. Naim, M.M. Elewa, A.A. El-Shafei A.A. Moneer (May 2020)*  
A Method and unit for Desalination of Exceptionally High Saline Water in a Single Stage Using Pervaporation Technique and a Method for Producing a Membrane.  
Patent No.: EG29747, Application No.: 2017030344, Filing Date: 5/3/2017.  
International Patent Classification (IPC): Int.Cl.8-C 02 F 1/00.

*M. M. Naim, M.M. Elewa, A.A. El-Shafei A.A. Moneer (Pending Nov. 2021)*  
A Method and a Prototype for Desalination of Seawater using Sweeping Hot Air Cylindrical Pervaporation Technique and a Method for Supported Membrane Production.  
Application No.: 1713/2021, Filing Date: 5/11/2021.

### **Journal Articles and Refereed International Conference Papers**

*Ahmed A. El-Shafei and Mohamed A. Mattar (2022),*  
“Irrigation Scheduling and Production of Wheat with Different Water Quantities in Surface and Drip Irrigation: Field Experiments and Modelling Using CROPWAT and SALTMED”, *Agronomy* 2022, Vol. 12, Issue 7, 1488;  
<https://doi.org/10.3390/agronomy12071488>

*Dilip Kumar Roy, Tapash Kumar Sarkar, SK. Shamshul Alam Kamar, Torsha Goswami, Md Abdul Muktaadir, Hussein M. Al-Ghobari, Abed Alataway, Ahmed Z. Dewidar, Ahmed A. El-Shafei and Mohamed A. Mattar (2022),*

“Daily prediction and multi-step forward forecasting of reference evapotranspiration using LSTM and Bi-LSTM models”, *Agronomy* 2022, Vol. 12, Issue 3, 594;  
<https://doi.org/10.3390/agronomy12030594>

*N.ul-Seher; M. Ahmad; I. Ahmad; F. Nazli; M. Z. Mumtaz; M. Latif; M.S. Al-Mosallam; F.S. Alotaibi; A.Z. Dewidar; M. Mattar; A. El-Shafei (2021),*

“Lead-Tolerant Bacillus Strains Promote Growth and Antioxidant Activities of Spinach (*Spinacia oleracea*) Treated with Sewage Water”, *Agronomy* 2021, Vol. 11, Issue 12, 2482; <https://doi.org/10.3390/agronomy11122482>

*Roy, D.K.; Biswas, S.K.; Mattar, M.A.; El-Shafei, A.A.; Murad, K.F.I.; Saha, K.K.; Datta, B.; Dewidar, A.Z. (2021),*

“Groundwater level prediction using a multiple objective genetic algorithm-Grey relational analysis based weighted ensemble of ANFIS models”, *Water*, Vol. 13, Issue 21, 3130. <https://doi.org/10.3390/w13213130>

- Eman M. Saleh, F.M. Kishk, Ramzy M.R. Hedia, Ahmed A. El-Shafei, Mona M. Abd El-Latif (2021),  
 “Efficacy of Nano-Clay Derived from Egyptian Alluvial Soils for Cu (II) Removal from Aqueous Solutions”, *Alexandria Science Exchange Journal*, Vol. 42, Issue 2, 365-380.  
 DOI: 10.21608/asejaiqsae.2021.170149
- Magouz, F.I.; Matter, M.; Essa, M.A.; El-Shafei, A.; Mansour, A.T.; Mahmoud, S.F.; Ashour, M. (2021),  
 “Effect of extended feeding with live copepods, *Oithona nana*, and *Artemia franciscana* on the growth performance, intestine histology, and economic viability of european seabass (*Dicentrarchus labrax*) postlarvae”, *Fresenius Environmental Bulletin*, Vol. 30, Issue A6, 7106-7116.
- El-Rouby, M.M., Omar, M.A , Nawar, A.I., El-Shafei, A.A., Zakaria, O.E. (2021),  
 “Determination of Grain Yield Inputs of the Maize Hybrid Giza 168 Using a Six-Factor Central Composite Design in Mediterranean Regions Under Irrigation”, *Journal of Desert and Environmental Agriculture*, Vol. 1, Issue 1, 1-15.  
 DOI: 10.21608/JDEA.2021.51532.1002
- Abdulhalim H. Farah, Hussein M. Al-Ghobari , Tarek K. Zin El-Abedin, Mohammed S. Alrasasimah, Ahmed A. El-Shafei (2021),  
 “Impact of Partial Root Drying and Soil Mulching on Squash Yield and Water Use Efficiency in Arid”, *Agronomy*. Vol. 11, Issue 4, 706.  
<https://doi.org/10.3390/agronomy11040706>
- Eman M. Abbas, Fawzia S. Ali, Mohammed G. Desouky, Mohamed Ashour, Ahmed El-Shafei, Mahmoud M. Maaty, Zaki Z. Sharawy (2021),  
 “Novel Comprehensive Molecular and Ecological Study Introducing Coastal Mud Shrimp (*Solenocera crassicornis*) Recorded at the Gulf of Suez, Egypt”, *Journal of Marine Science and Engineering*, Vol. 9, Issue 1,9. <https://doi.org/10.3390/jmse9010009>
- Hosam O. Elansary, Agnieszka Szopa, Pawel Kubica, Halina Ekiert, Fahed A. Al-Mana, Ahmed A. El-Shafei (2020),  
 “Polyphenols of *Frangula alnus* And *Peganum harmala* Leaves And Associated Biological Activities”, *Plants*. Vol. 9, Issue 9, 1086. <https://doi.org/10.3390/plants9091086>
- Mohamed Ashour, Ahmed A. El-Shafei, Hanan M. Khairy, Doaa Y. Abd-Elkader, Mohamed A. Mattar, Abed Alataway, Shimaa M. Hassan (2020),  
 “Effect of *Pterocladia capillacea* Seaweed Extracts On Growth Parameters And Biochemical Constituents of Jew’s Mallow”, *Agronomy*. Vol. 10, Issue 3, 420.  
<https://doi.org/10.3390/agronomy10030420>
- Hamdy Abo-Taleb, Mohamed Ashour, Ahmed El-Shafei, Abed Alataway, Mahmoud M. Maaty (2020),  
 “Biodiversity of Calanoida Copepoda in Different Habitats of the North-Western Red Sea (Hurghada Shelf)”, *Water*. Vol. 12, Issue 3, 656. <https://doi.org/10.3390/w12030656>
- M. M. Naim, M. M. Elewa, A. A. El-Shafei, A. A. Moneer. (2019),

“Desalination Using Modified Configuration of Supported Liquid Membrane with Enhancement of Mass Transfer of NaCl”, *Water Science & Technology*. Vol. 79, Issue 1, Pages 175-187. Available online 28 January 2019. <https://doi.org/10.2166/wst.2019.039>.

M.M. Naim, A.A. Moneer, A.A. El-Shafei, M.M. Elewa (2018)  
"Role of Non-Newtonian Behavior in Effecting Complete Desalination of Simulated Seawater by The Emulsion Liquid Membrane Technique".  
*Conference of Desalination for the Environment: Clean Water and Energy, 3–6 September 2018, Divani Caravel Hotel, Athens, Greece. 176.*

Mona M. Naim, Mahmoud M. Elewa, Ahmed A. El Shafei (2018)  
"Application of Nanomaterials in Desalination, Agriculture and Wastewater Remediation: A Review".  
*Conference of Desalination for the Environment: Clean Water and Energy, 3–6 September 2018, Divani Caravel Hotel, Athens, Greece. 181.*

Ahmed A. El-Shafei, Mona M. Naim, Mahmoud M. Elewa, Rana S. Atito (2018)  
"Desalination by Sweeping-Air Pervaporation with Modified Cellulose-Based Membranes".  
*Conference of Desalination for the Environment: Clean Water and Energy, 3–6 September 2018, Divani Caravel Hotel, Athens, Greece. 182.*

Mona M. Naim, Mahmoud M. Elewa, Ahmed A. El Shafei (2018),  
"Desalination by Humidification-Dehumidification Using a Novel Green Packing Material".  
*Conference of Desalination for the Environment: Clean Water and Energy, 3–6 September 2018, Divani Caravel Hotel, Athens, Greece. 183.*

M. M. Naim, A. A. Moneer, M. M. Elewa, A. A. El-Shafei (2017),  
"Desalination Using Ion Exchange Multi-Stage Fluidization ".  
*3<sup>rd</sup> International Conference on Desalination using Membrane Technology, 2-5 April 2017 Palacio de Congresos de Canarias, Las Palmas, Gran Canaria, Spain. Elsevier Publisher, OC38.*

M. M. Naim, A. A. Moneer, M. M. Elewa, A. A. El-Shafei (2017),  
"Enhancement of Mass Transfer of NaCl Through Modified Configuration of Supported Liquid Membrane ".  
*3<sup>rd</sup> International Conference on Desalination using Membrane Technology, 2-5 April 2017 Palacio de Congresos de Canarias, Las Palmas, Gran Canaria, Spain. Elsevier Publisher, P2.07.*

M. M. Naim, A. A. El-Shafei, M. M. Elewa, A. A. Moneer, (2017),  
"Application of Silver-, Iron-, and Chitosan- Nanoparticles in Wastewater Treatment".  
*Desalination and Water Treatment, Vol. 73. Pages 268-280. doi:10.5004/dwt.2017.20328.*  
*This article was selected by conference committee to publish after presented as:*  
M. M. Naim, A. A. El-Shafei, M. M. Elewa, A. A. Moneer, (2016),  
"Application of Silver-, Iron-, and Chitosan- Nanoparticles in Wastewater Treatment".  
*International Conference of European Desalination Society, Desalination for Environment: Clean Water and Energy, Marriott Park Hotel, Rome, Italy, 22–26 May 2016.*



- M. M. Naim, A. A. Moneer, A. A. El-Shafei, M. M. Elewa, (2017),  
 "Automated Prototype for Desalination by Emulsion Liquid Membrane Technique".  
*Desalination and Water Treatment*, Vol. 73. Pages 164-174. doi:10.5004/dwt.2017.20542.  
 This article was selected by conference committee to publish after presented as:  
 M. M. Naim, A. A. Moneer, A. A. El-Shafei, M. M. Elewa, (2016),  
 "Automated Prototype for Desalination by Emulsion Liquid Membrane Technique ".  
*International Conference of European Desalination Society, Desalination for Environment: Clean Water and Energy, Marriott Park Hotel, Rome, Italy, 22–26 May 2016.*
- M. M. Naim, M. M. Elewa, A. A. Moneer, A. A. El-Shafei (2017),  
 "Desalination by Directional Freezing: an Experimental Investigation ". *Desalination and Water Treatment*, Vol. 73. Pages 185-197. doi:10.5004/dwt.2017.20554.  
 This article was selected by conference committee to publish after presented as:  
 M. M. Naim, M. M. Elewa, A. A. Moneer, A. A. El-Shafei (2016),  
 " Desalination by Directional Freezing: an Experimental Investigation ". *International Conference of European Desalination Society, Desalination for Environment: Clean Water and Energy, Marriott Park Hotel, Rome, Italy, 22–26 May 2016.*
- M. M. Elewa, A. A. El-Shafei, A. A. Moneer, M. M. Naim (2016),  
 "Effect of Cell Hydrodynamic in Desalination of Saline Water by Sweeping Air Pervaporation Technique Using Innovated Membrane". *Desalination and Water Treatment*, Vol. 57, Issue 48-49. Pages 23293-23307. Available online 15 April 2016, DOI: 10.1080/19443994.2016.1173381.  
 This article was selected by conference committee to publish after presented as:  
 M. M. Elewa, A. A. El-Shafei, A. A. Moneer, M. M. Naim, (2015),  
 " Effect of Cell Hydrodynamic in Desalination of Saline Water by Sweeping Air Pervaporation Technique Using Innovated Membrane" . *International Conference of EuroMed 2015, Desalination for Clean Water and Energy, Palermo, Italy, 10–14 May 2015, PA 52.*
- A. A. El-Shafei, A. A. Moneer, M. M. Elewa, M. M. Naim (2016),  
 "Kinetics of Transport of Sodium Chloride Using Supported Liquid Pertraction".  
*Desalination and Water Treatment*, Vol. 57, Issue 48-49. Pages 23280-23292. Available online 5 January 2016, DOI: 10.1080/19443994.2015.1130918.  
 This article was selected by conference committee to publish after presented as:  
 A. A. El-Shafei, A. A. Moneer, M. M. Elewa, M. M. Naim (2015),  
 " Kinetics of Transport of Sodium Chloride Using Supported Liquid Pertraction" .  
*International Conference of EuroMed 2015, Desalination for Clean Water and Energy, Palermo, Italy, 10–14 May 2015, PA 122.*
- A. A. Moneer, A. A. El-Shafei, M. M. Elewa, M. M. Naim (2016),  
 "Removal of Copper from Simulated Wastewater by Electrocoagulation/Floatation Technique". *Desalination and Water Treatment*, Vol. 57, Issue 48-49. Pages 22824-22834. Available online 31 December 2015, DOI: 10.1080/19443994.2015.1130917. .  
 This article was selected by conference committee to publish after presented as:  
 A. A. Moneer, A. A. El-Shafei, M. M. Elewa, M. M. Naim (2015),

" Removal of Copper from Simulated Wastewater by Electrocoagulation/Floatation Technique" . *International Conference of EuroMed 2015, Desalination for Clean Water and Energy, Palermo, Italy, 10–14 May 2015, PA 51. (This article in review by conference committee in order to publish in journal of "Desalination and Water Treatment")*.

M. M. Naim, A. A. El-Shafei, A. A. Moneer, M. M. Elewa, W. G. Kandeel. (2016), "Bulk Liquid Pertraction Of NaCl From Aqueous Solution Using Carrier-Mediated Transport", *Environmental Technology*, Vol. 37 No. 4. Pages 495-504. Available online 6 October 2015, doi: 10.1080/09593330.2015.1085825.

*This article was selected by conference committee to publish after presented as:*

M. M. Naim, A. A. El-Shafei, A. A. Moneer, M. M. Elewa, W. G. Kandeel. (2014), " Bulk Liquid Pertraction Of NaCl From Aqueous Solution Using Carrier-Mediated Transport", *Proceedings of the 9th IWA International Symposium on Waste Management Problems in Agro-Industries (AGRO'2014), Kochi, Japan, 24-26 November 2014, Volume 1, 375-382.*

A. El-Shafei, K. Allam; T. Hamad (2015), "Simulation and Field Verification of Water Management Strategies and Wheat Crop Production ", *The 20<sup>th</sup> conference of Misr Society of Agricultural Engineering. Agricultural Engineering and Country Challenges. Faculty of Agriculture, Benha University, Moshtohor, Egypt. 12 December, 2015. Misr Journal of Agricultural Engineering, Pages 427- 458.*

A. El-Shafei (2015), "Removal of Cupric Ions from Wastewater by Oolitic Lime Sand", *The 20<sup>th</sup> conference of Misr Society of Agricultural Engineering. Agricultural Engineering and Country Challenges. Faculty of Agriculture, Benha University, Moshtohor, Benha, Egypt. 12 December, 2015. Misr Journal of Agricultural Engineering.*

M. M. Naim, M. M. Elewa, A. A. El-Shafei, A. A. Moneer. (2015), "Desalination of Simulated Seawater by Purge-Air Pervaporation Using an Innovated Fabricated Membrane", *Water Science & Technology*, Vol. 72 No. 5. Pages 785-793. Available online 2 June 2015. doi: 10.2166/wst.2015.277.  
*This article was selected by conference committee to publish after presented as:*  
M. M. Naim, M. M. Elewa, A. A. El-Shafei, A. A. Moneer. (2014), "Desalination of Simulated Seawater by Purge-Air Pervaporation Using an Innovated Fabricated Membrane", *Proceedings of the 9th IWA International Symposium on Waste Management Problems in Agro-Industries (AGRO'2014), Kochi, Japan, 24-26 November 2014, Volume 1, 383-390.*

M. M. Naim, A. A. El-Shafei, A. A. Moneer, M. M. Elewa, (2015)  
" Ultrafiltration by a Super-Hydrophilic Regenerated Cellulose Membrane", *Water Practice & Technology*, Vol. 10, No 2, Pages 337-346 doi: 10.2166/wpt.2015.040.  
*This article was selected by conference committee to publish after presented as:*  
M. M. Naim, A. A. El-Shafei, A. A. Moneer, M. M. Elewa, (2014)," Ultrafiltration by a Super-Hydrophilic Regenerated Cellulose Membrane", *Proceedings of the 9th IWA International Symposium on Waste Management Problems in Agro-Industries (AGRO'2014), Kochi, Japan, 24-26 November 2014, Volume 2, Pages 501-508.*

N. Kamel, A. El-Shafei, S. Sharaf, D. Yousef (2012)

- A High-Reliability Database-Supported Modular Precision Irrigation System. *11<sup>th</sup> International Conference on Precision Agriculture (ICPA) The International Society of Precision Agriculture. July 15-18, 2012, Indianapolis, Indiana, USA.*
- M. M. Naim, A.A. Moneer, M.M. Elewa, M.E. Yehia, Ahmed El-Shafei (2012)  
Recent Advances in Desalination Technologies: A Review.  
*International Conference of Desalination for the Environment-Clean Water and Energy. April 23-26, 2012, Barcelona, Spain.*
- A. El-Shafei (2009)  
Three Dimension Model for Simulating Infiltration and Redistribution of Furrow Irrigation Water. *Misr Journal of Agricultural Engineering*. Volume 26 No. (3) : Page 1336- 1364. DOI: 10.21608/MJAE.2009.108703
- A.E. Guirguis, A. El-Shafei and Kh.A. Allam (2009)  
Mathematical Model for Micro-Irrigation Design for Center Pivot Corners. *J. Agric. Sci. Mansoura Univ.*, 34 (5) : Page 6055-6078.
- A.E. Guirguis, A. El-Shafei and Kh.A. Allam (2009)  
Mathematical Model for Subunit Drip Irrigation System Design. *J. Agric. Sic. Mansoura Univ.*, 34 (4): Page 4011-4029.
- A. Zayton, A. El-Shafei, Kh. Allam, M. Mourad (2009)  
Effect of water salinity and potassium fertilizer levels on tomato productivity and water consumption in Siwa Oasis. *Misr Journal of Agricultural Engineering*. Volume 26 No. (1): Page 107-131. DOI: 10.21608/mjae.2009.109866
- A. El-Shafei, M. Yehia, F. El-Naqib (2008)  
Impact of effective microorganisms compost on soil fertility and rice productivity and quality. *Misr Journal of Agricultural Engineering*. Volume 25 No. (3) Page 1067-1093.
- A. El-Shafei, Kh. A. Allam, T. K. Zin El-Abedin (2008)  
Heterogeneity analysis of sprinkler irrigation in peanut fields. *Misr Journal of Agricultural Engineering*. Volume 25 No. (1) Page 58-86.
- A. Zayton; Kh. Allam; A. El-Shafei, M. Mourad (2008)  
Wheat growth and productivity as influenced by irrigation water salinity and leaching fraction in Siwa Oasis. *Misr Journal of Agricultural Engineering*. Volume 25 No. (2) Page 309-406.
- A. El-Shafei, A. Zayton, A. Zien El-Din(2004):  
Finite difference model for nitrogenous fertilizers transport under different soil compaction levels. *The 12<sup>th</sup> conference of Misr Society of Agricultural Engineering*. Faculty of Agriculture, Alexandria University, Alexandria, Egypt. 4-5 October, 2004. *Misr Journal of Agricultural Engineering*. Volume 21, Page 565-587.
- Asuri Sridharan, Ahmed El-Shafei, Norihiko Miura (2002):  
Mechanisms Controlling the Undrained Strength Behavior of Ariake Marine Clays. *Marine Georesources and Geotechnology*. Volume 20, Number 1/January-March, Page 21 - 50. DOI: 10.1080/106411902753556843

A. Sridharan, H. Lee, N. Miura and A. El-Shafei (2002):

The Effect of Pre-Test Conditions on the Physical Properties of Marine Clays.  
*Proceeding of the International Symposium on Lowland Technology*, Institute of Lowland Technology ISLT 2002, Sep. 18-20, Saga, Japan, G15.

Ahmed El-Shafei, Akira Tanaka and Norihiko Miura (2001):

Transport of Nitrogenous Fertilizer and Its Influence on Mechanical and Physico-Chemical Properties of Soil. *TRANSACTIONS OF THE JAPANESE SOCIETY OF IRRIGATION, DRAINAGE AND RECLAMATION ENGINEERING (Transactions of JSIDRE)*, Volume 215, Page 619-629, a2, DOI: 10.11408/jsidre1965.2001.619.

A. Sridharan, A. El-Shafei and N. Miura (2000):

A study on the dominating mechanisms and parameters influencing the physical properties of Ariake Clay. *LOWLAND TECHNOLOGY INTERNATIONAL*, The official journal of International Association of Lowland Technology (IALT), Volume 2 (2) Page 55-70.

A. El-Shafei, H. Lee, N. Miura and A. Sridharan (2000):

Effect of the nitrate contamination on the geotechnical behaviors of soils,  
*Proceeding of the International Symposium on Lowland Technology*, Institute of Lowland Technology ISLT 2000, October 4-6, Saga, Japan, Page 449-456 (2000) .

A. Sridharan, N. Miura and A. El-Shafei (2000):

Geotechnical Behavior of Ariake Clay and its Comparison to Typical Clay Minerals.  
*Proceeding of the International Symposium on Lowland Technology*, Institute of Lowland Technology ISLT 2000, October 4-6, Saga, Japan, Page 121-128.

A. El-Shafei, H. Nagy, N. Miura, and A. Tanaka (2000):

Potential impact of nitrate species migration on the subsurface environment of the Saga upland. *International Conference in New Trends in Water and Environmental Engineering for Safety and Life: Eco-Compatible Solution for Aquatic Environments*, Balkema Publishing Co, Rotterdam/Brookfield, July 3-7, Italy, Page 678-691.

A. El-Shafei, T. Koumoto, N. Miura (2000)

Characteristics of Remolded Behavior of Leached Ariake Marine Clay.  
*Nogyo Doboku Gakkai Kyushu Shibu Koenshu*, Volume 81, Page 245 - 248.

T. Komoto, A. El-Shafei, and M. Ohtsubo (1998):

Effect of Salinity on Consistency Limits and Remold Strength of Ariake Clay.  
*Proceeding of the International Symposium on Lowland Technology*, Institute of Lowland Technology ISLT 98, Nov. 4-6 Saga, Japan, Page 83-90.

### **Books**

A. El-Shafei, and M. Mattar (2022) (*Translators to Arabic - in press*)

“Applied Soil Hydrology: Theory and Applications of Transport in Porous Media.” Editors: Viliam Novák and Hana Hlaváčiková. King Saud University Press, Riyadh.

S. Fatah-Allah and A. El-Shafei (2015):

"Machine Drawing"- Alexandria University. Sixth edition. Bostan Knowledge Publisher, Egypt

A. Zien EL-Dien, T. Zin El-Abedin and A. El-Shafei (2014):  
 "Engineering Mechanics –Static"- Alexandria University. Eighth edition. Bostan Knowledge Publisher

A. Zien EL-Dien, T. Zin El-Abedin and A. El-Shafei (2009):  
 "Engineering Mechanics – Dynamic" - Alexandria University. Fourth edition.

S. Nasif, M. Helmy, T. Zin El-Abedin and A. El-Shafei (2007):  
 "Computer Application in Agriculture Engineering" - Alexandria University. Second edition.

## CONSULTATION AND ENGINEERING WORKS

1/2017 to date	Designer and consultant for construction, operation and maintenance of desalination and water treatments systems at Briny Tech Co., <a href="http://www.brinytech.com">www.brinytech.com</a> , 21 Al Kornesh Avenue – Panorama al Kornesh Tower, Camp Cesar, Alexandria, Egypt.
1/2014 to 2/2019	Designer and consultant for construction, operation and maintenance of landscape irrigation systems and pumps stations at Alex West Co., 26 km Alexandria-Marsa Matruh Costal Rood, Egypt.
11/2006 to 2/2019	Designer and consultant for water treatment, ground water dewatering and irrigation networks at Green Life for Landscape and Agricultural Consultations, 68, officer Biulding, Mostafa Kamel, Alexandria, Egypt.
11/2018	Preparing the tender document, designs and consultation for the construction, operation and maintenance of landscape irrigation system and pumps stations of Egyptian Naval, Prness, the Red Sea, Egypt.
4/2017	Preparing the tender document, designs and consultation for the construction, operation and maintenance of landscape irrigation system and pumps stations of Egyptian Naval, Gargop, Marsa Matruh, Egypt.
9/2016	Preparing the tender document, designs and consultation for the construction, operation and maintenance of landscape irrigation system and pumps stations of Egyptian Naval, Raas Eltin, Alexandria, Egypt.
1/2013	Consultation for the construction, operation and maintenance of Sewage treatment plant (capacity of 700 m <sup>3</sup> /day) of Rosana Resort 54 km Alexandria-Marsa Matruh Costal Rood, Egypt.
11/2012	Preparing the tender document, designs and consultation for the construction, operation and maintenance of landscape irrigation system and pumps stations of Rosana Resort 54 km Alexandria-Marsa Matruh Costal Rood, Egypt.
2/2012	Design, planning and consulting the agricultural modern irrigation network, pumps stations and greenhouses of the <i>Integrated Company for Agricultural Projects. (ICAP)</i> for Farm A and B 90 fed at Qantara Shark, Sinai, Egypt.
8/2011	Preparing the tender document and designs for the construction, operation and maintenance of landscape irrigation networks system and pumps stations of 5 Coquet courts at Alexandria Sporting Club, Alexandria, Egypt.
07/2011	Preparing the tender document, designs and consultation for the construction, operation and maintenance of landscape irrigation system and pumps stations of Costal village (Mina 1).80 km Alexandria-Marsa Matruh

	Costal Rood, Egypt.
6/2011	Preparing the tender document and designs for the construction, operation and maintenance of landscape irrigation networks system and pumps stations of Polo Playground. Alexandria Sporting Club, Alexandria, Egypt.
5/2011	Preparing the tender document and design the agricultural farm machinery, agricultural modern irrigation network, pumps stations and greenhouses of the <i>El-Bady Investment Group Co.</i> (200 Hectare) (N'djamena-Chad).
8/2010	Design and planning the Agricultural modern irrigation network, ground water wells pumps stations and greenhouses of the <i>Green Valley Co.</i> (5000 fed) (West of Khartoum-Umm Durman , Sudan).
6/2010	Preparing the tender document and designs for the construction, operation and maintenance of landscape irrigation networks system and pumps stations of Zain Resort, Marsa Alam. Owner: Al-Jaida for Tourism Development, El-Mokattam- Part H5077 El-Shark Turance Club, Egypt.
2/2010	Design, planning and consulting the Agricultural modern irrigation network, ground water wells pumps stations and greenhouses of the <i>General Co. for Agencies Farm</i> (1000 fed) (West of Maloy, Menya, Egypt).
11/2009	Electro-Mechanic Design of pumps station and control head of the Agricultural modern irrigation networks for the Farm of <i>Aman Association for Agricultural Cooperation</i> 1100 fed (West of Nobaria, El-Beheira, Egypt).
07/2009	Preparing the tender document and designs for the construction, operation and maintenance of landscape irrigation system and pumps stations of <i>Alexandria Mineral Oils Co. (AMOC)</i> (Al-Maks, Alexandria, Egypt).
02/2009	Design and planning the Agricultural modern irrigation network, ground water wells, pumps stations and drainage of the <i>Shally United Co. for Agricultural Development and Land Reclamation Farm</i> (1000 fed) (Siwa Oasis, Marsa Matruh, Egypt).
11/2008	Design and Planning of the Agricultural Modern Drainage networks and drainage's pumps stations and drainage for the Farm of Aman Association for Agricultural Cooperation (1100 fed) (West of Nobaria, El-Beheira, Egypt).
08/2008	Preparing the tender document and designs for the construction, operation and maintenance of landscape irrigation networks system of Andalosia city for El-Andalos & El-Hagaz Estate Investment , Marsa Matroh.
04/2008	Preparing the tender document and designs for the construction, operation and maintenance of landscape irrigation system and pumps stations of Costal village (Mina 4). Mina for Touristic and Estate Investment El-Alamin, Egypt.
01/2008	Electro-Mechanic Design of pumps station and control head of the Agricultural modern irrigation networks for the Farm of <i>Agricultural Alexandria Co.</i> 1000 fed (West of Nobaria, El-Beheira, Egypt).
09/2007	Evaluate, redesign and maintains irrigation, drainage networks systems and pumps stations of playgrounds and landscape of Somoha Club., Alexandria
10/2006	Design and planning the Agricultural modern irrigation networks, ground water wells, pumps stations and drainage of the Investments Farms (Nagah

	Village, Tahrir, El-Beheira, Egypt).
6/2006	Design and consultation for the construction, operation and maintenance of modern irrigation networks and pumps stations landscape of El-Fateh Co., El-Beheira, Egypt.
2/2006	Design and consultation for the construction of three football playground modern irrigation networks and pump station of Idku Youth Centers , donation form Egyptian Liquefied Neutral Gas Co., Idku site, El-Beheira, Egypt.
10/2005	Preparing the tender document and consultation for the construction, operation and maintenance of modern irrigation network, and pumps stations for landscape of Egyptian Liquefied Neutral Gas Co., Idku site, El-Beheira, Egypt.
1 /2005	Design and planning the Agricultural modern irrigation network, and pumps stations of the <i>Sheikh Zayed Pioneer and Experimental Farm</i> (1000 fed) (South Valley Development Project, Sheikh Zayed Canal-Branch 3, Tushka, Egypt).
7 / 2004	Design and planning the Agricultural modern irrigation network, and pumps stations of the Investments Farms (300 fed) (Omaid Village, El-Hmam, Marsa Matruh, Egypt).
4 / 2004	Design of landscape irrigation for front area of the Managements Buildings of <i>Alexandria National Iron &amp; Steel Co.</i>
2 / 2004	Evaluate, redesign and maintains of landscape irrigation system of the <i>MIDOR Co.</i> , Alexandria
12 / 2003	Evaluation of the landscape irrigation system for City Center, Alexandria.

## PARTICIPANT IN THE FOLLOWING WORKSHOP

8-23/3/2017	<p>Training Matrix to Quality the Leaders, included:</p> <ol style="list-style-type: none"> <li>1. University Laws and Regulations. (8-11/3/2017)</li> <li>2. Executive Leadership Skills Development. (12-13/3/2017)</li> <li>3. Strategic Thinking and Leadership. (15-19/3/2017)</li> <li>4. Innovative Problem Solving and Decision. (18/3/2017)</li> <li>5. University Financial Aspects. (22-23/3/2017)</li> </ol> <p>– at Faculty and Leadership Development Center, Alex. Univ.</p>
10- 11/8/2015	<p>Training workshop “Water and Food security: the SALTMED model as a management tool for water, cops, soils, and N-fertilizers”</p> <p>Collaboration between the Center for Environmental Studies, Bibliotheca Alexandrina, Egypt and the Center for Ecology and Hydrology, Wallingford, UK. August 10<sup>th</sup> and 11<sup>th</sup> 2015, The Bibliotheca of Alexandrina, Alexandria, Egypt</p>
25-28/10/2014	<p>Hunter Irrigation Technology Conference, October 25th – 28th 2014, Mövenpick Hotel Cairo Pyramids, Cairo, Egypt</p>
7- 11/4/2013	<p>- Workshop of Training of Trainer (TOT) prep 61– By National Center for Faculty and Leadership Development (NCFLD), International Board of Certified Trainers (IBCT) – at Faculty and Leadership Development Center, Alexandria University.</p>
6/11/2012	<p>- Workshop on Wastewater Reuse in Agriculture. City of Scientific Research and Technological Application, Borg El-Arab City,</p>

Alexandria, Egypt.

	- Presented paper in title: Safe use of treated wastewater in agriculture production of ornamental plants (case study Jatropha).
31/3 -4/4/2011	- Workshop of Training of Trainer (TOT) – By Pathways to Higher Education, Egypt, Center for Advancement of Postgraduate Studies and Research, Faculty of Engineering, Cairo University (CAPSCU) – at Faculty and Leadership Development Center, Alexandria University
30/11 -2/12/2010	- Workshop of the Credit Hours Systems– By National Center for Faculty and Leadership Development – at Faculty and Leadership Development Center, Alexandria University.
2-4/11/2010	- Workshop Quality Standards in the Education Process– By National Center for Faculty and Leadership Development – at Faculty and Leadership Development Center, Alexandria University.
30/10 -1/11/2010	- Workshop of Research Ethics– By National Center for Faculty and Leadership Development – at Faculty and Leadership Development Center, Alexandria University.
26-28/10/2010	- Workshop of Implementation of E-Learning Courses– By National Center for Faculty and Leadership Development – at Faculty and Leadership Development Center, Alexandria University.
23-25/10/2010	- Workshop of E-Learning – By National Center for Faculty and Leadership Development – at Faculty and Leadership Development Center, Alexandria University.
19-21/10/2010	- Workshop of Exams and Students Evaluating Systems– By National Center for Faculty and Leadership Development – at Faculty and Leadership Development Center, Alexandria University.
31/08- 2/09/2010	- Workshop of International Publishing of Scientific Research – By National Center for Faculty and Leadership Development – at Faculty and Leadership Development Center, Alexandria University.
10-12/08/2010	- Workshop of Managing Time and Meetings– By National Center for Faculty and Leadership Development – at Faculty and Leadership Development Center, Alexandria University.
29-31/05/2010	- Workshop of Design National Academic Reference Standards and Writing Intended Learning Outcomes for Graduate Programs – By National Authority for Quality Assurance and Accreditation of Education (NAQAAE) - at Institute of Graduate Studies and Research, Alexandria University.
7-11/03/2010	- Workshop of Learning Outcomes and Maps Program for Higher Education Institutes – By National Authority for Quality Assurance and Accreditation of Education (NAQAAE) – at Conferences Center, Faculty of Medicine, Alexandria University.
19-23/12/2009	- Workshop of Self Assessment for Accreditation of Higher Education Institutes – By National Authority for Quality Assurance and Accreditation of Education (NAQAAE) – at Faculty and Leadership Development Center, Alexandria University.
15-17/09/2009	- Workshop of Project Management, Evaluation and Monitoring– By National Center for Faculty and Leadership Development – at Faculty and Leadership Development Center, Alexandria University.



12-14/09/2009	- Workshop of Using of Technology in Teaching– By National Center for Faculty and Leadership Development – at Faculty and Leadership Development Center, Alexandria University.
14-18/12/2008	- Workshop of Design Dynamic Website with (PHP/MySQL) Language – Senghor University, (Agence Univeritaire De La Francophonie), Alexandria Branch, Egypt.
5-8/04/2008	- Workshop of Proposal writing and fund raising workshop according FP7 – By Center for Development Services (CDS) at Faculty of Agriculture, Alexandria University, Egypt.
1-5/12/2007	- Workshop of strategic plan of Faculty of Agriculture – By Center for Development Services (CDS) at Faculty of Agriculture, Alexandria University, Egypt.
17-19/11/2006	- Workshop of How to write a successful research proposal for engineering and information technology- Bibliotheca Alexandrina, Egypt.
11-12/03/2006	- Workshop of Effective management for Crisis – By National Center for Faculty and Leadership Development – at Faculty and Leadership Development Center, Alexandria University.
5/03/2006	- Workshop of Training of Executive Supervisors 2 (TOT) – By National Center for Faculty and Leadership Development – at Faculty and Leadership Development Center, Alexandria University
7-10/05/2005	- Workshop of Effective presentation skills – By National Center for Faculty and Leadership Development – at Faculty and Leadership Development Center, Alexandria University
9-12/04/2005	- Workshop of Training of Executive Supervisors (TOT) – By National Center for Faculty and Leadership Development – at Faculty and Leadership Development Center, Alexandria University
04/2005	- Second Meeting for the Managers Teams of Higher Education Enhancement Project Fund (HEEPF)- Conference Center, Helwan University, Egypt.
11/2004	- Conference on Quality Management and Accreditation of Higher Education in the Arab World. The 3rd International Convention on Education and Training 24-26 November 2004. InterContinental Semiramis Hotel- Cairo, Egypt.
23-28/10/2004	- Workshop of Development Effective Communication Skills Program - Faculty and Leadership Development Project Center at Alexandria University.
04/2005	- First meeting for the managers teams of Higher Education Enhancement Project Fund (HEEPF) - Conference Center, Cairo University, Egypt.
03/2004	- Constructed the Curriculum of Faculty of Agriculture, Alexandria University, Juba Branch, Sudan.
07/2003	- Workshop: Problem of the agricultural drainage in Siwa Oasis (Causes and Solutions).14-15 July- Marsa Matruh, Egypt
12/2002	- Workshop: Developing the undergraduate courses for Faculty of Agriculture, Alexandria University.
Annual seminar	- Hunter Industries Incorporated – seminar on controllers and central

2004 to 2011	control systems for irrigation technology– Cairo – Egypt.
Annual seminar 2004 to 2011	- Rain Bird International – seminar on controllers and central control systems for irrigation technology – Cairo – Egypt.

## FELLOWSHIPS & AWARDS

11/2017	- WIPO distinction award in the fourth Cairo international exhibition for innovation 2017.
01/1999 to 04/1999	- Research scholarship (Ph.D.), Association of International Education, Japan “AIEJ”
10/1996 to 09/1998	- Research scholarship (M.Sc.), Japanese Ministry of Education, Science, and Culture “Monbusho”.
7/ 1994	- Amin Ali Ebrahim Award for first class first positioned of Agricultural Engineering Graduates.

## COMPUTER SKILLS

*ICDL (Skills Card No. EGY000406250) as well as includes:*

*Windows 10 operating system, Microsoft Office 2016 (Word, Excel spreadsheets, Access Databases, PowerPoint Presentation, Internet Explorer Ver. 1607 Information & Communication).*

*Golden Software Makers of Surfer (v8.09.2391)*

*Qnet 2000 (Neural Network Modeling)*

*Multiple Back-Propagation (MBP) (Neural Network Modeling)*

*MATLAB*

*Visual BASIC (Programming Language)*

*FORTRAN, FORTRAN Power Station (Programming Language)*

*MikroC PRO for PIC and AVR, and Proteus Professional*

*SAS (Statistical software)*

*CoHort Software (2005) costat 6.311 win.exe (Statistical software)*

*AutoCAD (Drawing Engineering software)*

*RainCAD/EcoCAD (Software for designing landscape irrigation systems).*

*SWICHA (Groundwater and chemical transport software)*

*CROPWAT 8.0 (Software calculating crop water requirement)*

*SALTMED 3.03.21 (Management of salt-prone irrigation system)*

*AquaCrop 6.1 (Crop growth model)*

*PHP and MySQL (Web Site Dynamic Design Software)*

*Remark Office OMR 7.*

*Moodle software e-learning package*

## PROFESSIONAL MEMBERSHIPS

8/2017 ~ 1/2019	- Membership of the Higher Studies Council of Faculty of Agriculture, Alexandria University.
8/2017 ~ 1/2019	- Membership of the Council of Faculty of Agriculture, Alexandria University.
2014 ~ 1/2019	- Rapporteur control computer and records, Faculty of Agriculture, Alexandria University.
7/2012 to 2015	- Membership of the International Society of Precision Agriculture

	(ISPA), USA.
12/2006 ~ 12/2012	- Membership of the Council of Faculty Staff Club, Alexandria University.
12/2009 ~ 7/2014	- Supervisor of the scientific environment and the stages of the implementation of training programs at Faculty Leaderships Development Center (FLDC), Alexandria University.
2/2010 ~ 1/2019	- Membership of the Self Assessment for Institutional Accreditation at Quality Assurance and Accreditation Unit of Faculty of Agriculture, Alexandria University.
09/2008 ~ 8/2009	- Executive director of the website development team of Alexandria University at the international information network (Internet).
06/2015 to date 10/2007~11/2009	- Supervisor of a computer control unit and records of Faculty of Agriculture, Alexandria University.
10/2005~09/2007	- Representative to the decision and computer control unit and records of Faculty of Agriculture, Alexandria University.
03/2006 ~ 9/2007	- Member at the Managers Teem of Faculty Leaderships Development Project, Alexandria University.
02/2005 ~ 9/2006	- Membership of the Quality Assurance and Accreditation Unit of Faculty of Agriculture, Alexandria University.
10/2004 ~ 9/2006	- Membership of the Library Council of Faculty of Agriculture, Alexandria University.
10/2003 ~ 09/2004	- Membership of the Higher Studies Council of Faculty of Agriculture, Alexandria University.
2002 to date	- Membership of Alexandria Journal for Agricultural Researches, Alexandria University.
2002 to date	- Membership of Alexandria Journal for Science Exchange, Alexandria University
02/1999	- Membership of the Japanese Society of Civil Engineering (JSCE) Membership No. (9901457).
02/1997	- Membership of the Japanese Society of Irrigation, Drainage, and Reclamation Engineering { JSIDRE }
01/1995 to date	- Membership of the Syndicate of Agricultural Engineering, Alexandria, Egypt (No. 356146).
2006 to date	- Membership of Yacht Club (No. 8334), Alexandria, Egypt.
2006 to date	- Membership of Smouha Club (No. 35759), Alexandria, Egypt.

## JOURNAL REVIEWER

Reviewer at the following Journal:

- Applied Organometallic Chemistry (Wiley Publisher, Impact Factor: 3.14).
- CLEAN - Soil, Air, Water (Wiley Publisher, Impact Factor: 1.473).
- Water Science and Technology (IWA Publisher, Impact Factor: 1.197).
- Water Practice and Technology (IWA Publisher).
- Misr Journal of Agricultural Engineering (ISSN: 1687 - 384x).
- Egyptian Journal of Agricultural Research (ISSN: 1110-6336)

## THESES SUPERVISED

2/2015	- M.Sc. Chemical Engineering from Faculty of Engineering, Alexandria University for Eng. Omnia Bassiouny entitled of “Application of Pervaporation Technique in the Desalination of Exceptionally Concentrated Saline Water Using Innovated Asymmetric Polymeric Membranes”.
6/2017	- Ph.D. Environmental Studies from Institute of Graduate Studies and Research, Alexandria University for Eng. Heba Abdel-Gaber Mohammed entitled of “A study on removal of some heavy metals from aquatic environment by using low cost adsorbents”.
12/2017	- M.Sc. Agriculture in Crop Science from Faculty of Agriculture, Alexandria University, for Eng. Ola Ahmed Abdel-Ghany entitled of “Optimization of Main Productivity Inputs of Maize cv. Giza 168”.
10/2018	- M.Sc. Agriculture in Agricultural Engineering from Faculty of Agriculture, Alexandria University, for Eng. Rana Sad Atito entitled of “Effect of additives to membrane casting formulations on its performance in desalination of saline water by the pervaporation technique ”.
10/2018	- M.Sc. Agriculture in Agricultural Engineering from Faculty of Agriculture, Alexandria University, for Eng. Hala Saad Eldin Hag entitled of “Desalination of saline water by an innovated Liquid Membrane Techniques ”.
5/2020	- M.Sc. Agriculture in Agricultural Engineering from College of Food and Agricultural Sciences, King Saud University, KSA, for Eng. Mohamed Alrasasmah entitled of “Combined Effect of Deficit Irrigation and Soil Mulching on Irrigation Water Preservation and Soil Moisture Conservation”.
10/2020	- M.Sc. Agriculture in Agricultural Engineering from College of Food and Agricultural Sciences, King Saud University, KSA, for Eng. Fahd Alshibani entitled of “Comparison of Three Different Scheduling Techniques Turfgrass Irrigation” .
1/2021	- M.Sc. Agriculture in Agricultural Engineering from College of Food and Agricultural Sciences, King Saud University, KSA, for Eng. Abdulhalim H. Farah entitled of “Effect of Partial Root-Zone Drying and Soil Mulching on Water Saving and Zucchini Yield under Subsurface Drip Irrigation System”.
3/2022	- M.Sc. Agriculture in Agricultural Engineering from College of Food and Agricultural Sciences, King Saud University, KSA, for Eng. Mohanad Abdualgader entitled of “Development of Rainwater Harvesting System for Arid Regions”.

### **THESES EXAMINER**

7/2012	- M.Sc. Agriculture in Agricultural Engineering from Faculty of Agriculture Saba Bash, Alexandria University for Eng. Mohamed Ebrahim entitled of “Soil Surface Crust as Affected by Different Organic Materials and Compaction Levels under Surface Irrigation Conditions”.
4/2014	- M.Sc. Chemical Engineering from Faculty of Engineering, Alexandria University for Eng. Nouran Milad entitled of “Novel bio-compatible membranes containing scaffolds for skin tissue repair”.
5/2015	- M.Sc. Chemical Engineering from Faculty of Engineering, Alexandria University for Eng. Ahmed Hazem entitled of “An investigation on the application of sweeping air pervaporation in the dehydration of alcohols and

	desalination of saline water”.
11/2015	- M.Sc. Agriculture in Agricultural Engineering from Faculty of Agriculture, Alexandria University, for Eng. Karim Shahin entitled of “Simulation of Engineering Treatment towards Iron Concentration Reduction in Groundwater for Irrigation Purposes”.
1/2016	- M.Sc. Agriculture in Agricultural Engineering from Faculty of Agriculture, Alexandria University, for Eng. Eman Ahmed entitled of “Effect of Pulse and Continuous Drip Irrigation on Soil Wetting Pattern ”.
3/2016	- M.Sc. Agriculture in Crop Science from Faculty of Agriculture, Damanhor University, for Eng. Ahmed Abdel-Ghany entitled of “Evaluation of Some Egyptian Wheat Cultivars under Water Stress Condition at El-Hammam Region in the North Western Coast of Egypt”.
6/2017	- Ph.D. Environmental Studies from Institute of Graduate Studies and Research, Alexandria University for Eng. Heba Abdel-Gaber Mohammed entitled of “A study on removal of some heavy metals from aquatic environment by using low cost adsorbents”.
10/2018	- M.Sc. Agriculture in Agricultural Engineering from Faculty of Agriculture, Alexandria University, for Eng. Rana Sad Atito entitled of “Effect of additives to membrane casting formulations on its performance in desalination of saline water by the pervaporation technique ”.
10/2018	- M.Sc. Agriculture in Agricultural Engineering from Faculty of Agriculture, Alexandria University, for Eng. Hala Saad Eldin Hag entitled of “Desalination of saline water by an innovated Liquid Membrane Techniques ”.
4/2019	- M.Sc. Agriculture in Agricultural Engineering from College of Food and Agricultural Sciences, King Saud University, KSA, for Eng. Mohammed Abdulsalam Osman entitled of “Performance Evaluation for Landscape Irrigation System under Spray and Subsurface Drip”.
4/2019	- M.Sc. Agriculture in Agricultural Engineering from College of Food and Agricultural Sciences, King Saud University, KSA, for Eng. Mohamed Shaban Mohamed Saban entitled of “Determining and Modeling Photovoltaic Cells Capacity for Water Pumping Systems in Arid Area”.
5/2020	- M.Sc. Agriculture in Agricultural Engineering from College of Food and Agricultural Sciences, King Saud University, KSA, for Eng. Mohamed Alrasasmah entitled of “Combined Effect of Deficit Irrigation and Soil Mulching on Irrigation Water Preservation and Soil Moisture Conservation”.
10/2020	- M.Sc. Agriculture in Agricultural Engineering from College of Food and Agricultural Sciences, King Saud University, KSA, for Eng. Mohamed Saad Mosa entitled of “The Possibility of Fog Water Collection for Agriculture Purposes in Arid Regions” .
10/2020	- M.Sc. Agriculture in Agricultural Engineering from College of Food and Agricultural Sciences, King Saud University, KSA, for Eng. Fahd Alshibani entitled of “Comparison of Three Different Scheduling Techniques Turfgrass Irrigation” .
1/2021	- M.Sc. Agriculture in Agricultural Engineering from College of Food and Agricultural Sciences, King Saud University, KSA, for Eng. Abdulhalim H. Farah entitled of “Effect of Partial Root-Zone Drying and Soil Mulching on Water Saving and Zucchini Yield under Subsurface Drip Irrigation System”.

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4/2021	- M.Sc. Agriculture in Agricultural Engineering from College of Food and Agricultural Sciences, King Saud University, KSA, for Eng. Mahmoud Ezz-eldin Hashem Ibrahim entitled of "Municipal Wastewater Treatment for Irrigation Purposes Using a Bio-Electrocoagulation System".
3/2022	- M.Sc. Agriculture in Agricultural Engineering from College of Food and Agricultural Sciences, King Saud University, KSA, for Eng. Mohanad Abdualgader entitled of "Development of Rainwater Harvesting System for Arid Regions".

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