

**October 2016**

### **Brief Resume**

**Name:** Sherine Awad Abdel Kader Awad

**Date of Birth:** 1<sup>st</sup>. Oct.1975

**Nationality:** Egyptian

**Residence:** Cairo, Egypt.

**Current Address:** Building no: 35, Apartment no: 5, Emarat Rabaa Elestesmary beside air defense house, El Nozha street, Nasr City, Cairo, Egypt.

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**Cell Phone:** 00201119350511

**Recent Employer :** Benha University, Benha, Egypt

**Position:** Senior Lecturer, Fundamental and Applied Sciences Department.

**Marital Status:** married

**Children:** Three children:

#### **Language:**

- 1- Arabic: native
- 2- English: excellent

#### **Education:**

B. Sc. Chemical Engineering, Minia University, 1997.

M Sc, Chemical Engineering, Minia University, April, 2002

M Sc subject: "Wastes Management and Energy Recovery from Wastes".

Ph.D., Chemical Engineering, Cairo University, June, 2008

Ph.D., subject: "Corrosion of Some Stainless and Duplex Stainless Steel Alloys in Phosphoric Acid Plants".

#### **Research Interest:**

- Alloys Corrosion: Duplex and super duplex, and its manufacture, development and application in plants.
- Electrochemical Engineering, Metal protection, Developing new corrosion inhibitors from organic polymers.
- Cement Production, Enhancing the physical, thermal and mechanical properties of cement and concrete.
- Waste Water Treatment, Removal of organic and inorganic pollutants from waste water.
- Natural Gas Discharge, Adsorption and desorption.

#### **Experience:**

**Research:** 17 years

**Teaching:** 4 years In term lecturer: Minia University, (1998-2002),

5 years Lecturer: Benha University, (2003-2008).

8 years Senior lecturer: Benha University, (2008-to date).

**Teaching courses:**

- Unit Operation for final year students, 1998-2002  
(Chemical Engineering Dept., Minia University, Minia, Egypt).
- Economics for forth year students, 1998-2002  
(Chemical Engineering Dept., Minia University, Minia, Egypt).
- Solar Energy for third year students, 1998-2002  
(Chemical Engineering Dept., Minia University, Minia, Egypt).
- Acid & Base, for first year students, 2002-2016  
(Basic Sciences Dep., Benha University, Benha, Egypt).
- Thermodynamics, for first year students, 2002-2016  
(Basic Sciences Dep., Benha University, Benha, Egypt).
- Reaction Kinetics and Equilibrium, for first year students, 2002-2016  
(Basic Sciences Dep., Benha University, Benha, Egypt).
- Electrochemistry and Corrosion, for first year students, 2002-2016  
(Basic Sciences Dep., Benha University, Benha, Egypt).

**Courses could be taught:**

- \*Electrochemistry
- \* Mass Transfer
- \* Material science
- \* Thermodynamics
- \* Reaction Equilibrium

**Research Experience:**

- Stainless steel alloys type's, characterization and application.
- Solid waste management, flue gas treatment, heat recovery from wastes.
- Waste water treatment, removal of inorganic and organic pollutants by novel methods.
- Production new types of polymers used as corrosion inhibitors.
- Production new types of cement for use in concrete.
- Adsorption of Natural Gas by unique materials to facilitate its usage.

**Current Research Activities:**

Metal alloy development and metal protection, Hydrogen Storage as apart of Bio-fuel production Project, chemical Process Flow Sheet development, employing up to date technology.

**Publications:**

1. "Corrosion of Some Stainless and Duplex Stainless Steel Alloys in Phosphoric acid Plants", Indian Journal Materials Science, vol. 4, Issue 4, 2008.
2. Enhanced Discharge of ANG storage for vehicle use, International Journal of Engineering & Technology, 09 (09), 381-389, 2009.  
<http://www.ijens.org/IJET%20Vol%2009%20Issue%2009.html>

3. Technical Evaluation of current Hydrogen storage technologies for vehicles, Journal of applied sciences, 10 (12):1151-1156,2010.
4. Ceramic materials for Adsorptive Natural Gas storage for Vehicles, INTERCERAM, 59(2010)[3].
5. Technology Review of Natural Gas Liquefaction Processes, Journal of Applied Sciences ISSN 1812-5664/DOI: 103923-jas.2011.
6. Behavior of composite cement paste containing silica nano-particles at elevated temperature, [\*Construction and Building Materials\*](#), Elsevier, 70, pp 339-350 2014.
7. Removal of Ni (II) ions from aqueous solutions using fixed-bed ion exchange column technique, [\*Journal of Taiwan Institute of Chemical Engineers\*](#), Elsevier (SCOPUS, ISI). 43(1), pp 40-45 2012.
8. Novel method for breakthrough removal of Azo dye from aqueous environment using integrated coagulation and Fenton process, International Journal of Photochemistry, Volume 2014, Article ID 934850.
9. Synthesis of some polymers containing Heterocyclic rings corrosion Inhibitors of Mild Steel, Egyptian journal of chemistry, Published by National Information and Documentation centre (NIDPD), 36, 2016.
10. Ceramic materials for adsorptive natural gas storage for vehicles, part II, [\*International ceramic review journal,INTERCERAM\*](#), 59 (5), 281-286, 2010.
11. Techniques used in LNG production plants continue to develop and adapt", [\*LNG journal\*](#), June 2010, pp 32-34
12. Synthesis and inhibiting action of some Quinazoline derivatives on the corrosion of Mild Steel in hydrochloric acid, Egyptian journal of chemistry, Published by National Information and Documentation centre (NIDPD), 31, 2016. <http://www.geocities.com/egyptchemsoc/english.html>

#### **References:**

**1- Prof\ Aghareed Mahmoud Tayeb,**

Present position: professor of chemical Engineering at Minia University, Egypt.

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**3- Prof\ Eman Aly Ashour,**

Present position: professor of chemical Engineering at Minia University, Egypt.

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**4- Prof\Omar El-Farooq**

Present position: professor of chemical Engineering at Cairo University, Egypt.

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