

Prof. Amer Mahmoud EL-Hamouz

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CURRENT POSITION

Professor of Chemical Engineering: October 2011-now.

EDUCATION

1990-1992 Ph.D. in Chemical Engineering, (Separation and Reaction Systems), University of Manchester Institute of Science and Technology (UMIST).
1988-1990 M.Sc. in Chemical Engineering. (Separation and Reaction Systems). UMIST
1983-1988 B.Sc. in Chemical Engineering (honor), Jordan University of Science and Technology (JUST).

WORK EXPERIENCE

- **Professor of Chemical Engineering: October 2011-now.**

During the last 10 years, I was involved in several projects related to Hazardous solid waste management, medical waste management, environmental impact assessment, mixing in the pharmaceutical industry and its related environmental impact. In addition to these, I supervised and being an internal and external examiner for more than 14 M.Sc students, six of them are in the solid waste management, household hazardous waste management and construction waste management. Additionally, I was involved in several consultation projects in the Hazardous, medical and household solid waste management and Environmental impact assessment. I am a team leader for several projects on the utilization of solid waste in producing valuable products funded by PARC. Since 2001, I was involved in refereeing several articles published by impacted factor journals in the area, of environmental engineering and chemical Engineering disciplines.

- **Director of Practical Training Center 2011-now**
- **Al-Nayzak Association Evaluation Committee Member since 2010 -now**
- **Member of the ABET college committee 2011-2012**
- **University General Safety Coordinator, 2008- now**
- **Member of the Editorial Board of the Process Safety and Environmental Protection Journal, 2002-2007.**
- **Head and Founder of Chemical Engineering Department 1997-2001.**

ADDITIONAL CAREER EXPERIENCE - PART TIME (Sample of):

- 1- Environmental expert: part of the team on the " Assessment of the feasibility study of establishing Nablus handicraft Industrial Zone: Design and development of Tender Package. " Amar Group, Ramallah, May 2012-now
- 2- Solid Waste Expert: Part of the team for the preparation of Strategic Physical Plan for Aja Anza, Meka and others. Funded by MDLF. May 2012- now.
- 3- Preparation of SDIP for several municipalities (Nablus, Beta, Asera, Aqaba and Aqraba) , Funded by MDLF, March 2011- June 2011

- 4- **National Hazardous Waste Management consultant**” Preparation of an Interim Action Plan for the **Hazardous Waste** In the Palestinian Territory” consultation to EQA/GIZ Palestine, June- December 2011.
- 5- Solid Waste Expert: Part of the team for the preparation of the SDIP for several municipalities (Nablus, Beta, Asera, Aqaba and Aqraba) , Funded by MDLF, March 2011- June 2011
- 6- Solid Waste Expert: part of the team for the preparation of Physical and Strategic Plans for Alkafriyat Municipality and Alitihad Municipality, *Jan-May 2011, Funded by MDLF*
- 7- **National Hazardous Waste consultant** “Development of a National Master Plan for **Hazardous Waste** Management for the Palestinian National Authority (PNA)” consultation to UNEP/EQA **Jan - Sep 2010.**
- 8- Solid Waste consultant for “Strategic Development plan For Nablus District”, January-Aug 2008. (**a member of solid waste consultation team**)
- 9- **A consultant for** “Monitoring Plan for the Medical Waste Management of Ramallah District: A project funded by UNDP Ramallah 2009”, a **consultation** prepared for **UNDP/ EQA**, Ramallah July 2009.
- 10-**A consultant:** Recipe Formulation, Lab and Commercial Production of Specialized Olive oil Based Soap, private consultation to Anabtawi group- Nablus West Bank, Aug 2009.

Certifications or professional registrations

- Member of the Editorial board of the Process Safety and Environmental Protection Journal, published by the Institute of Chemical Engineers, UK, 2002- 2007.
- Associate Member: Institute of Chemical Engineers, UK. (AMIChE), 1998-present.
- Member: American Institute of Chemical Engineering (AIChE), 1992- present.
- Member: Association of Jordanian Engineers, Chemical Engineering Division.,1988-present.

INTRESTS AND SKILLS

- Wide interests in computing, with programming knowledge in Matlab, and FORTRAN. Good knowledge of P.C's. and their associated packages. Good ability in using the Internet and the electronic e-mail. Other interests include reading, especially books, magazines and watching TV programs including comedy and documentary programs.
- Ability to organise, lead and deals tactfully with people of different thinking ability, the ability to write for support from industry and public funding bodies. Also the ability to referee technical proposal and manage their programs.
- Ability to organise and deliver training and workshop programs in the Hazardous Waste Management and Solid Waste management areas, Safety Engineering and more concentration of chemical safety as accident investigation.
- Ability to lead team in areas related to strategic planning of solid waste, hazardous waste and medical waste management areas.

AWARDS (Sample of):

- 1- Quality Research Excellence Award for the years 2010 and 2012, Deanship of Scientific Research, An-Najah National University.
- 2- Attending the Professional Faculty Development Conference organized by Center for Learning and Teaching held at the American University in Cairo form March 11 to March 17th, 2012.

- 3- MTCP, **Science and Technology Course for Researchers in OIC countries**, 4-16 July 2010, Kuala Lumpur, Malaysia
- 4- **PARC fellowship 2007-2008 for the project** titled" Improvements of the Recycled Plastic Properties by the use of Olive Solid Waste" Joint with Eng. Shadi Sawalha.
- 5- One year **Sabbatical leave** from An-Najah University, 2005-2006. Hosted by the University of Manchester, UK.

COURSES TAUGHT:

BACHELOR COURSES:

- Safety Engineering
- Chemical Reaction Engineering
- Chemical Reaction Lab
- Reactor Design
- Computer Aided Equipment Design
- Plant Design
- Soap and Detergent Manufacturing.
- Soap and Detergent Manufacturing Lab.
- Environmental Impact Assessment

MASTER LEVEL COURSES:

- Environmental Impact Assessment

PUBLICATIONS

PATENT

The following patent is under investigation for registration.

Zakariya Al-Hamouz, **Amer EL-Hamouz** and Nabil Abu Zaid "System and method for estimating corona power loss in a dust – loaded Electrostatic precipitator". Attorney Docket No 31500.68, May 2010.

REFEREED JOURNALS (Sample of):

- [J1]Steven Hall, Michael Cooker, **Amer EL-Hamouz** and Adam J. Kowalski "Droplet Break-Up by in-line Silverson Mixer", *Chemical Engineering Science* 66 (2011) 2068–2079
- [J2]Z. Al- Hamouz and **A. EL-Hamouz**, " Analysis of a Wire-Duct Electrostatic Precipitator Under Dust Loading Conditions", *J Energy Conversion and Management*, 52 (2011), 1235-1243.
- [J3]Z. Al-Hamouz, **A. M. EL-Hamouz** and N. Abu Zaid "Simulation and Experimental Studies of Corona Power Loss in Dust Loaded Wire-Duct Electrostatic Precipitator" *J Advanced Powder Technology*, **22(6)**, 706-714 (2011).
- [J4]S.Sawalha and **A.M. EL-Hamouz**," Improvements of the Tensile Properties of Recycled High Density Polyethylene (HDPE) by the Use of Carbonized Olive Solid Waste." *Polymer Plastic Technology and Engineering*, **49(4)**, 387-393 (2010).
- [J5]**EL-Hamouz**," Drop size distribution in a Standard Twin –Impeller Batch Mixer at High Dispersed Phase Volume Fraction " *Journal of Chemical Engineering and Technology*, **32 (8)** 1203-1210, (2009)

- [J6] Hikmat S. Hilal, Rania M.A. Ismail, **Amer EL-Hamouz**, Ahed Zyoud and Iyad Saadin, "Effect of cooling rate of pre-annealed CdS thin film electrodes prepared by chemical path desposition: Enhancement of photo electrochemical characteristics. *Electrochimica Acta* 54, 3433-3440 (2009).
- [J7] **A. M. EL-Hamouz**, M. Cooke, A. Kowalski and P. Sharratt, "Dispersion of Silicone oil in Water Surfactant solution: Effect of Impeller Speed, Oil Viscosity and Addition Point on Drop Size Distribution", *Chemical Engineering and Processing: Process intensification* 48, 633-642 (2009),.
- [J8] **AM.EL-Hamouz** "Logistical management and private sector involvement in reducing the cost of municipal **solid waste collection service** in the Tubas area of the West Bank" *Waste Management* 28(2), 260-271 (2008).

Ms. Supervision, Internal and external examiner (Sample of)

- 1- Hiba Nassar "Removal of Nitrate and Nitrite ions by Activated carbon" *An-Najah National University, May 2012.*
- 2- Rami Bani Shamas "Assessment of solid medical waste management in laboratories and the occupational safety of the workers in Medical laboratories in Nablus and Ramallah and AlBirah Districts., *Bir Zeit University. Examined on June 2012.*
- 3- Maher Hamdan, "Chlorination efficiency and chlorine decay in water distribution systems in Palestine: the case of Kufor Male. . *Bir Zeit University. Examined on May 2012.*
- 4- Majed I AL-Sari "Behavioral and attitude factors and workers safety in construction waste management in the Southern West Bank of Palestine" *Examined in October 2010 (external examiner –Bir Zeit University.*
- 5- Mohammad AlSadi "Reuse-Recycling Options for Municipal Solid Waste in Zahrat Al-Finjan Landfill", July 2009 (*internal examiner*).
- 6- AbdelSalam Khalid, "Medical Waste Management and its Associated Factors in Jenin Hospitals", November 2009 (*Internal Examiner*).

REFEREED CONFERENCES (Sample of):

- [C1] Z. AL-Hamouz and **A.M.EL-Hamouz**, Electrohydrodynamic (EHD) Flow in Wire – Duct Electrostatic Precipitators: Numerical and Experimental Findings" Paper Number D5, International Symposium on Electrohydanamics, University of Malaysia Sarawak (UNIMAS) Malaysia 25-28th March 2009.
- [C2] Hikmat S. Hilal, Lamees Z. Majjad, **A. El-Hamouz** and Nidal Zaater; "Graphite-Supported Nano- Crystalline Semiconductors as Catalysts for Photo-Degradation of water Contaminants", International Congress in Materials Science and Engineering 2006, Algeria May ¹⁻³ 2006.

REFERENCES

Available upon request
